
CURRICULUM VITAE
THE KILPATRICK GROUP, PA

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(Updated 12/13/2022)

EDUCATION

North Carolina State University 1990:

Bachelor of Science Degree in Mechanical Design Engineering with a minor in Speech Communications.

Mitchell College 1985

Associate in Science Degree – College Transfer Courses.

HONORS/AWARDS

North Carolina State University MAE Hall of Fame: Inducted 2013.

National Academy of Forensic Engineers: Inducted August 13th 2013 as a Board Certified Diplomat in Forensic Engineering.

PROFESSIONAL TRAINING AND DEVELOPMENT

Public Speaking and Communications:

Dale Carnegie Course: Public Speaking and Public Relations. Certificate (1980).

Mitchell Community College and North Carolina State University Public Speaking Courses. Degrees (1985-1990).

Midlands Technical Community College: Train The Trainer. Certificate (1996).

University of North Carolina Charlotte: Introduction To Forensic Engineering. Certificate (2002).

General Industry and OSHA Safety:

Modern Machine Shop Technology (1979).

Chesapeake Consulting: Constraint Management Applications. Certificate (1998).

Mesa Consulting Group Incorporated: Six Sigma. Certificate (2000).

North Carolina State University: ISO 9001: 2000 Internal Quality Auditing. Certificate (2005).

Forsyth Technical Community College: Pro-Engineer 2001 CAD Software Training. Certificate (2003).

Guilford Technical Community College: General Contractor's Licensing Preparation Course including OSHA 29 CFR 1910 General Industry Regulations and OSHA 29 CFR1926. Certificate (2006).

Measuring and Improving Boiler Efficiency – Advanced. Certificate (2007).

OSHA 29 CFR 1926 Construction Industry Regulations and Major Hazard and Prevention Strategies. Certificate (2010).

OSHA Industrial Accident Investigation. Certificate (2010).

Forklift Operation Safety, Certification and Licensing Course. Certificate (2014).

Combined Heat and Power – Utilities Power Generation. Certificate (2017).

Chiller Plant Optimization. Certificate (2017).

DOT Hazardous Material Transportation Regulations 49CFR 100-185 Training and Certification. (2018)

Forklift Operations and Safety:

»Worked for the Clark Equipment Company who invented the Forklift, BobCat and also

designed and manufactured heavy earth moving machines and was the main competitor with Caterpillar. Machined, heat-treated and assembled complete drive train units and their components for rough terrain Forlifts and Rough Terrain Telescoping Boom Cranes.

- »Have over 1000+ hours of experience in the day-to-day operation of forklifts over a five year period which included material handling operations. Have operational experience with sitdown forklifts and standup narrow aisle reach forklifts. Have a current forklift operator's certification to operate sitdown forklifts, standup narrow aisle reach forklifts and Telehandlers.
- »OSHA 29CFR1910.178 (Powered Industrial Trucks).
- »ANSI/ITSDF B56 Standards Industrial Truck Standards Development Foundation.
- »Forklift Operation and Safety Certification. (2014).
- »Forklift Operation and Safety Certification. (2018).
- »Forklift Standup Electric Narrow Aisle Reach Forklift Train-The-Trainer Certification (2021).
- »Forklift Sit-Down Electric/Gasoline/LNG Forklift Train-The-Trainer Certification (2021).
- »Telehandler Forklift Train-The-Trainer Certification (2021).
- »Forklift Maintenance Certification (2021).
- »Forklift Troubleshooting and Technical Training (2022).

Cranes Operations and Safety (Self-Education and Research):

- »Worked for the Clark Equipment Company who invented the Forklift, BobCat and also designed and manufactured heavy earth moving machines and was the main competitor with Caterpillar. Machined, heat-treated and assembled complete drive train units and their components for rough terrain Forlifts and Rough Terrain Telescoping Boom Cranes. Very knowledgeable of crane operations, crane physics, crane safety, operators requirements, counterweight loading and data loggers.
- »National Commission For The Certification of Crane Operators (NCCCO).
- »Crane Institute of America.
- »Specialized Carriers & Rigging Association.
- »Association of Equipment Manufactures: Safety Manual For The Operation and Maintenance of Cranes.
- »Naval Ships Technical Manual Chapter 589 Cranes.
- »Mobile Power Crane and Excavator and Hydraulic Crane Standards No. 4.
- »ASME B30.11 Monorail and Underhung Cranes.
- »ASME B30.5 Mobile and Locomotive Cranes.
- »ASME B30.20 Below The Hook Lifting Devices.
- »ASME Bth-1 Design of Below The Hook Lifting Devices.
- »CSA Group National Standard of Canada CAN/CSA Z150.16 Safety Code on Mobile Cranes.
- »CSA Group National Standard of Canada Z150.3
- »Crane Safety.
- »Crane Types.
- »Crane Instruments and Components, Loading, Rigging, Inspection, Testing.
- »Crane Safe Work Practices.
- »Crane Movements.
- »Crane Two-Blocking.
- »Hazards Common To Most Cranes.
- »Crane Telescoping Boom and Lattice Boom.
- »Crane Hand Signals.
- »Crane Below The Hook Lifting Devices.
- »Crane Lattice Boom Disassembly Error and Collapse.
- »Crane Counterweight Holding Mechanism Failure.
- »OSHA Regulations 29CFR1926.1400.
- »OSHA 29CFR1926.550; 1400 (Cranes and Derricks in Construction).
- »OSHA 29CFR1910.180 (Crawler, Locomotive and Truck Cranes).
- »Canadian/Ontario OSHA Crane Regulations 851; 1060.

Mobile Elevating Work Platforms (MEWP):

- »Groups A and B; Types 1,2 and 3 Machines.
- »MEWP Operators Certification and Train-The-Trainer Certification (2021).
- »ANSI/SAIA A92.24 Training Requirements for the Use, Operation, Testing and

- Maintenance of Mobile Elevating Work Platforms (MEWP).
- »Manual of Responsibilities for MEWPs.
- »MEWP Maintenance Certification (2021).
- »ANSI/CSA B354.7/B354.8 Mobile Elevating Work Platforms.

Amusement Park Ride Machines:

- Member of International Association of Amusement Parks and Attractions (IAAPA).
- Attended the Operators Forum for the American With Disabilities Act.
- ASTM F24 Committee Standards For Amusement Park Rides.

Tractor Trailer Driver's School Training:

- Future Truckers of America; Asheboro, North Carolina (2018).
- Full-Time Student; Four Week Class.
- Road Tractor Training Vehicle: Volvo with sleeper Berth; 53 foot van and 53 foot flatbed trailers.
- Tranmission: Eaton 8 speed with high/low range switch.
- Graduation Date: April 19, 2018.
- Class A Commercial Drivers License North Carolina 3744851
- Endorsements: Tanker, Hazardous Materials and Triples.
- Truck Pro: Commercial Tractor Trailer Truck Air Brake Seminar (2017).
- The Smith Driving System (2018).
- Member of the North Carolina Truckers Association.

North Carolina Passenger and Public School Bus Training:

- North Carolina Substitute School Bus Driver.
- Class A Commercial Drivers License North Carolina 3744851.
- North Carolina School Bus and Passenger Bus Classes (2018).
- School Bus Driver's Training (2018).
- Emergency Drug Administration Training.
- School Bus: Type C 2001 Thomas Built Bus Full-Size Bus 57 Student Capacity.
- Brake System: Air Brakes.
- Automatic Transmission.
- Engine: 3126 Caterpillar Medium-size In-Line Six Cylinder Diesel Engine.
- OSHA Regulations For School Bus Drivers.
- Endorsements: Passenger and School Bus.
- Substitute/Part-Time School Bus Driver for the North Carolina/Guilford County Department of School Transportation.
- Schoolbus Safety Expert.

Traffic Accident Reconstruction and Vehicle Product Defect and Failure Analyses:

- North Carolina State University: Machine Design, Dynamics and Mechanics of Machines and Vehilces, Motor Vehicle Traffic Crash Reconstruction Sciences. BSME (1990).
- Northwestern University Research in Traffic Accident Reconstruction (2003).
- Institute For Police Technology and Management Research in Traffic Accident Reconstruction (2010).
- National Academy of Forensic Engineers: Forensic Engineering Seminars (2005, 2006, 2012, 2014).
- Collision Safety Institute: Automotive Crash Research Testing & Training. Certification (2006).
- Collision Safety Institute: Bosch Diagnostics Crash Data Retrieval System Download and Analyses Training and Certification (2006).
- iWitness Close Range Photogrammetry. Certificate (2008).
- Insurance Institute for Highway Safety and Highway Loss Data Institute: Vehicle Crashing Test Comparisons and Ratings. Seminar (2011).
- Chief Automotive Technologies: Vehicle Construction Technology and Trends. Seminar (2011).
- ARC-CSI Vehicle Crash Conference Crash Data Retrieval Systems Summit Houston Texas. Certificate. Vehicle were crash tested at these summits. (2011, 2013).
- Aras 360 HD/Reality 4 day Crash Simulation training Course. Certificate (2014).
- Engineering Dynamics Corporation: Advanced Vehicle Dynamics and Crash Simulation 5 Day Course. Certification (2015).
- ARC-CSI Boot Camp and Crash Conference; Crash Testing of Motor Vehilces. Certificate (2015).
- ACTAR Examination Preparation Course (2015).
- Northwestern University – Traffic Crash Investigation/At-Scene Investigation/Evidence Mapping (2015)
- Northwestern University – Pedestrian Vehicle Crash Reconstruction (2016).

National Association of Professional Accident Reconstruction Specialist (NAPARS):
National Association of Professional Accident Reconstruction Specialist (NAPARS); Crash Reconstruction Training (2020):

- »Motorcycle Crash Reconstruction
- »Motor Vehicle Rollover Analysis and Reconstruction
- »Motor Vehicle Crash Testing
- »Perception/Response Time Studies in Various Types of Motor Vehicle Crashes
- »Chip-Level Crash Data Recovery
- » Motor Vehicle Tires Tire Forensics Inspection and Tire Analyses – Instructor TJ Tennant
- »Using New Freightliner Electronic Control Module Engine Run Data

National Association of Professional Accident Reconstruction Specialist (NAPARS); Crash Reconstruction Training (2021):

- »Crash Scene Mapping and Documentation
- »Critical Speed Yaw
- »CDR Updates
- »Conservation of Linear Momentum
- »Motor Vehicle Tires Tire Forensics Inspection and Tire Analyses
- »Crash Reconstruction Energy Methods
- »Motor Vehicle Crash Testing

Commercial Tractor Trailer Trucks:

SAE Tractor-Trailer Event data Recorder Symposium (2011).
North Carolina Commercial Drivers License (Class-A CDL) for Driving and Operating Commercial Tractor-Trailer Trucks License Number 3744851. Endorsements: Tanker, HazMat and Triples.
DOT Hazardous Material Transportation 49CFR 100-185 Training and Certification (2018).
North Carolina School Bus Training; have Passenger and School Bus Endorsements (2018).
Northwestern University – Commercial Truck Crash Reconstruction and Air Brake Systems (2016).
Truck Pro: Commercial Tractor Trailer Truck Air Brake Seminar (2017).
Northwestern University – Commercial Truck ECM Data Imaging and Analyses (2017).
Texas Association of Accident Reconstruction Specialist – Advanced HVEDR Systems (2022).
DOT Hazardous Material Commercial Transportation Regulations 49CFR 100-185 Training and Certification. (2018).
Technology & Maintenance Counsel Technicians Meeting on Air Brake Systems Presented By MERITOR and WABCO (2018).
Texas Association of Accident Reconstruction Specialist – Advanced Commercial Heavy Vehicle Event Data Recorder Systems (2022).

Motorcycle Riding and Training:

Avid motorcyclist for over 30 years riding both trail, motocross and street motorcycles.
Dirt Bike Motocross Racing/Trail Riding: 1969 – 1974.
Motorcycle Safety Foundation: Advanced Rider's Training, Certification (2002).
Harley Owners Group: Chapter 3446 Group Riding Class, Certificate (2004).
Big Bear Choppers: How To Build a Custom Motorcycle (2009).
Bike Safe North Carolina – Instructed by the Cary Police Department in cooperation with the North Carolina Highway Patrol, Certificate (2013).
Currently own and ride one street motorcycle: 2012 Harley-Davidson CVO Road Glide.
Have owned and operated approximately 15 motorcycles to date.

All-Terrain Vehicle (ATV) and Recreational Off-Highway Vehicle (ROV) Riders Training:

ATV Safety Institute - ATV Rider Course: ATV Rider Certification (2007).
Recreational Off-Highway Vehicle Association (ROHVA) Riders Certification (2018).
Owned and operated a 2007 Honda FourTrax TRX 420 TE/FE Rancher with Front Articulating Blade Attachment for Pushing Soil and Snow.

PROFESSIONAL ENGINEERING LICENSURE

- North Carolina Board of Examiners for Engineers and Surveyors
Professional Engineer License Number (027030).
Professional Corporation License Number (C-2279).
Original Issue Date: 06/25/2001
- Florida Board of Professional Engineers

- Professional Engineer License Number (66186).
Original Issue Date: 05/21/2007
- South Carolina Board of Registration for Professional Engineers and Land Surveyors
Professional Engineer License Number (25937).
Original Issue Date: 08/29/2007
- Georgia State Board of Registration for Engineers and Surveyors
Professional Engineer License Number (PE032652).
Original Issue Date: 12/14/2007
- Louisiana Professional Engineering and Land Surveying Board
Professional Engineer License Number (33528).
Original Issue Date: 11/27/2007
- Tennessee Architect and Engineering Board
Professional Engineer License Number (00111899).
Original Issue Date: 12/26/2007
- Virginia Board For Architects, Professional Engineers and Land Surveyors
Professional Engineer License Number (0402046851).
Original Issue Date: 09/28/2009
- New Jersey Board of Examiners for Engineers and Surveyors
Professional Engineer License Number (24GE04845900).
Original Issue Date: 02/02/2010
- West Virginia State Board of Professional Engineers
Professional Engineer License Number (18874).
Original Issue Date: 10/25/2010
- Mississippi Board of Licensure for Professional Engineers and Surveyors
Professional Engineer License Number (20194LTD).
Original Issue Date: 04/30/2011
- Maryland State Board of Professional Engineers.
Professional Engineer License Number (43433)
Original Issue Date: 03/27/2013
- Wisconsin State Board of Professional Engineers
Professional Engineer License Number (48944-6)
Original Issue Date: 12/29/2021
- Illinois Department of Financial and Professional Regulation
Professional Engineer License Number (062.073761)
Original Issue Date: 01/28/2022
- The University of the State of New York, Education Department
Office of the Professions
Professional Engineer License Number: 105580-01
Original Issue Date: 02/07/2022

PROFESSIONAL SOCIETY MEMBERSHIPS

- American All-Terrain Vehicle Association (Since 2006).
- American Motorcyclist Association (Since 2006).
- American Society of Mechanical Engineers (Since 2002).
- Harley Owners Group (HOG) (Since 2001).
- International Association of Amusement Parks and Attractions (Since 2016).
- National Academy of Forensic Engineers (Since 2002).
- National Association of Professional Accident Reconstruction Specialists (Since 2003).
- National Society of Professional Engineers (Since 1999).
- Society of Automotive Engineers (Since 2008).

OFFICES HELD

- Member of NSPE/PENC since August 16th 1999.
- PENC Chapter Secretary (1999-2000).
- PENC Chapter President – North Piedmont Chapter (2002-2003).
- PENC Chapter Treasurer and Secretary (2003-2004).
- PENC Chapter Vice President, President Elect and Chapter Governor (2007-2008).
- PENC Chapter President, Chapter Governor, Programs Chairman (2008-2009).
- PENC National Engineer’s Week Chairman (2009-2011).

- PENC Programs Chairman (2009-2010).
- PENC Chapter Governer (2011-2012).
- PENC Director (2012 – 2015).
- PENC Mentorship Program (2020 - Present).
- Mathcounts Volunteer.

PUBLIC SPEAKING EXPERIENCE

- Dale Carnegie Course Public Speaking.
- College Public Speaking Classes.
- Industrial Classroom Teaching.
- Deposition and Court Trial Testimony.
- National Engineer’s Week – Various Local Middle Schools.
- National Society of Professional Engineers Presentations.
- Society of Manufacturing Engineers Presentations.
- National Academy of Forensic Engineers Presentations.

PRESENTATIONS/TEACHING

- Mathematics Teacher For Koyo Corporation (1996-1997)
Taught basic math to potential hourly employees for the purposes of screening for future employment as machinist. Created math text and testing materials for classroom use.
- Society of Manufacturing Engineers – Subject Forensic Engineering (2004).
- Professional Engineers of North Carolina – Subject Forensic Engineering (2007, 2008, 2014, 2017).
- Raleigh-Wake County Paralegal Association – Subject Forensic Engineering (2007).
- Guilford County Paralegal Association – Subject Forensic Engineering (2007).
- Casualty Insurance Adjusters Various Chapters – Subject Forensic Engineering (2007).
- North Carolina Paralegal Association – Subject Forensic Engineering (2008).
- Local Middle Schools – National Engineer’s Week – Subject Engineering Profession (2005-2009).
- North Carolina State University ASME Student Section. Subject Forensic Engineering (2009).
- Piedmont Community College – Subject Forensic Engineering (2009).
- National Engineer’s Week – Subject Careers in Engineering and What Engineers Do (2004-2009).
- Professional Engineers of North Carolina – Subject NASA’s Saturn V Moon Rocket (2010).
- IADA Conference – Vehicle Crash Data Retrieval and Traffic Accident Reconstruction (2011).
- National Academy of Forensic Engineers – ATV Accidents (2012, 2014).
- Professional Engineers of North Carolina – Motor Vehicle Crash Reconstruction (2017).

WRITING EXPERIENCE

- Industrial operation, training and maintenance manuals for various companies.
- ISO 9001: 1994; ISO 9001: 2000 documentation for various companies.
- Presentations.
- Forensic Engineering Rule 26 State and Federal Court Expert Reports.

TECHNICAL PAPERS AND PUBLICATIONS

- The Physics of a Collision White Paper (2006).
 - Product Design, Product Manufacturing and Product Quality Control White Paper (2012)
 - Forensic Engineering Analysis of Hazards Associated with Operating an ATV by a Paraplegic (NAFE 2012).
 - Forensic Engineering Analysis of an ATV Accident Involving Two Riders on a Type 1 ATV Designed for One Driver and No Passengers (NAFE 2013).
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FORENSIC ENGINEERING CASE WORK LITIGATION EXPERIENCE TO DATE

Industrial Accident Investigation/Reconstruction:

•Industrial Accidents/OSHA Safety/Machine Guarding/Hazard Investigations/ Product Defect and Failure Analysis Investigations:

- »All OSHA 29CFR1910, 1926 and 1928 Industry Safety Regulations and
- »Applicable ANSI, ISO, ASME, UL, ASTM Standards.
- »Workmans Comp Claims.
- »Poultry Process Equipment Accidents.
- »Complexor Take-Up Machine Accidents.
- »Home Appliance Failures.
- »Earth Moving Machines.
- »Underground Mining Equipment.
- »Farming Equipment and Tractor Accidents.
- »Forage Harvester Accidents.
- »Lawn Mower Accidents.
- »Soil Aerator Accidents.
- »Forklift Accidents – both sitdown, narrow isle standup, truck mounted/piggyback and Telehandler forklifts.
- »Forklift Product Defect and Failure Analyses.
- »Pallet Jack Accidents.
- »Crane Accidents.
- »Crane Spreaderbar Lifting Test Waterbag Accidents.
- »Man Boom Lifts Articulated.
- »Man Lifts Scissor Lifts.
- »Mobile Crane Accidents and Component failures.
- »Belt Conveyor Accidents.
- »Overland Belt Conveyor Accidents.
- »Power Cord Accidents.
- »Hand Operated Tools.
- »Staple Gun Accidents.
- »Subtractive Machining Operator Safety and Practice.
- »CNC Machine Program Coding for Component Production.
- »CNC Multi-Axis Machining Centers.
- »Machine Guarding.
- »Shipping/Receiving/Loading Docks.
- »Lockout/Tagout Requirements.
- »Process Equipment Maintenance and Standards of Care.
- »Product Defect and Failure Analyses.
- »Product Safety Signs, Symbols, Warnings and Labeling.
- »Many other types of industrial process equipment and standards of care.
- »Powerline Cable Lifting Accidents.
- »Machine Guarding Accidents.
- »Fabric Rollup Machines Accidents.
- »Scaffold Failures.
- »Ladder Failures.
- »Orchard Ladder Inspection Failure Accidents.
- »Folding Bench Accidents.
- »Belt Sanders Accidents
- »Power Saw Accidents.
- »Automatic Storage and Retrieval Systems (AS/RS)(AGV) Forklift Accidents.
- »Ladder Accidents.
- »Loading Dock Accidents - Dock Lift, Dock Leveler and Dock Plate Accidents.
- »Power Plant Accident Investigations.
- »Power Tool Accidents: Belt Sanders, Radial Miter Saws.
- »Exercise Strength Training Equipment Accidents.
- »Lawn Mower Accidents.
- »Lawn Aerator Accidents.
- »Escalators Accidents.

- »High Voltage Power Line Tower Structures Failure Accidents.
- »Product Safety Signs, Symbols, Warnings and Labeling.
- »ANSI Z535 Labeling Standards.
- »Product Safety Information in Product Manuals, Instructions and Other Collateral Materials.
- »Wood Working Machine Accidents.
- »Abrasive Shotblaster Accidents.
- »Motor Vehicle Coil Spring Compressors Accidents.
- »Industrial Piping Systems.
- »Electric Utility Cable Reel Machines.
- »Solenoid Control Valve.
- »Home Water Pipe Rupture.
- »Pressure Washer Accidents.
- »Caulking Gun Failure.
- »Abrasive Shot Blasting Equipment Accidents.
- »Warehouse Dock Leveler Accidents.
- »Escalator Inspections.
- »Commercial Rug Hanger Failure.
- »Industrial Trip and Fall Case – Drainage Pit
- »Bushhog Accidents.
- »Farming Chemical Warehouse Inspection.
- »Exercise Equipment Failures.
- »Poultry Processing Equipment Accidents.
- »Power Generation Steam Pipe Valve Accident.
- »Mobile Elevating Work Platforms.
- »Tractor Trailer Landing Gear Failure.
- »Automotive Hydraulic In-Ground Garage Jacks

Amusement Ride Machine Accidents

ASTM F24 Standards; Standards of Maintenance; Standards of Care and Operation; Product Defect and Failure Analysis.

- »Go-Kart crashes with kart inspection.
- »Samba Balloon Ride Gondola support failure with the inspection of the entire machine structure. The main superstructure was cracked in multiple locations. Engineer advised the client to take the ride out of operation and either repair the superstructure or destroy it.
- »X-Factory Ride; Inspection of the machine's patron restraint system design.
- »Musical Ferris Wheel in an Arcade which was a coin operated kiddie ride.
- »Watkins Swinger Amusement Park Ride.

Motor Vehicle Crash Reconstruction

Traffic Crash Reconstruction involving cars, light trucks, school buses, bicycles, heavy commercial trucks, motorcycles, bicycles and pedestrians.

- »Product Defect and Failure Analyses.
- »At-Scene Investigation and Evidence Mapping.
- »Slow and High Velocity Collisions, Drag Factor, Skid Analyses, PDOF, ΔV , Closing Velocity, Conservation Linear and Angular Momentum, Conservation of Mechanical Energy, Crush Damage Analyses, Crush Energy, Critical Velocity and Circular Motion, Dynamic Weight.
- »Vehicle Inspections.
- »Cars and Pickup Truck Crash Reconstruction.
- »Car/Light Truck Event Data Recorder (EDR) Report Imaging, Analysis and Interpretation.
- »Commercial Tractor Trailer Truck Crash Reconstruction.
- »Commercial Tractor-Trailer Truck Electronic Control Module (ECM) Operational Data Imaging, Analysis and Interpretation.
- »49 CFR 40, 303, 325, 350-399 Federal Motor Carrier Safety Regulations.
- »49CFR 100-185 DOT Hazardous Materials Regulations.
- »Public School Bus Crash Reconstruction.
- »Pedestrian Crash Reconstruction.

- »School Bus Accidents.
- »Shift, Falls, Flips ,Vaults, Rollovers.
- »Lamp Filament Analyses.
- »Airbag Operation and Failure Analyses.
- »Seat Belt Operation and Failure Analyses.
- »Motor Vehicle Product Defect and Failure Analyses.
- »Motor Vehicle Inspections.
- »Vehicle Standards of Care.
- »Engine Failure.
- »Vehicle Crash Testing.
- »Vehicle Braking and Skid Testing.
- »Suspension System Failures.
- »Vehicle Suspension and Handling Testing.
- »Cars and Pickup Truck Crash Reconstruction.
- »Car/Light Truck Event Data Recorder (EDR) Report Imaging, Analysis and Interpretation.
- »Motorcycle and Bicycle Crash Reconstruction.
- »Commercial Tractor Trailer Truck Crash Reconstruction.
- »Commercial Tractor-Trailer Truck Electronic Control Module (ECM) Operational Data Imaging , Analysis and Interpretation.
- »Commercial Vehicle Maintenance and Standards of Care.
- »Commercial Heavy Truck Air Brake Systems.
- »Commercial Trailer Inspection.
- »49 CFR 40, 303, 325, 350-399 Federal Motor Carrier Safety Regulations.
- »49CFR 100-185 DOT Hazardous Materials Regulations.
- »Public School Bus Crash Reconstruction.
- » (ATV) All Terrain Vehicles Crashes and Rollover Reconstruction.
- » (ROV) Recreational Off-Highway Vehicles Crash and Rollover Reconstruction.
- »Motor Vehicle Product Defect and Failure Analyses.
- »Motor Vehicle Inspections.
- »Vehicle Standards of Care.
- »Vehicle Crash Testing.
- »Vehicle Braking and Skid Testing.
- »Vehicle Suspension and Handling Testing.
- »Video School Bus Analysis.
- »Suspension System Failure Accidents.
- »Coil Spring Compressor Accidents.
- »Cement Truck Crash Accidents.
- »Van Vehicle Seat Failures.
- »Recreational Vehicle (RV) Inspections.

Motorcycle and ATV/ROV/UTV Crash Reconstruction and Product Defect and Failure Analyses

- »At-Scene Investigation and Evidence Mapping.
- »Slow and High Velocity Collisions, Drag Factor, Skid Analyses, PDOF, ΔV , Closing Velocity, Conservation Linear and Angular Momentum, Conservation of Mechanical Energy, Crush Damage Analyses, Crush Energy, Critical Velocity and Circular Motion, Dynamic Weight.
- »Crash Site Inspections.
- »Product Defect and Failure Analyses.
- »Pedestrian Crash Reconstruction.
- »Vehicle-Bicycle Crash Investigation.
- »Shift, Falls, Flips ,Vaults, Rollovers.
- »Dirt Bike Accidents.
- »Tire Deflation Failures.
- »Lamp Filament Analyses.
- »Brakes Failures.
- »Engine Failures.
- »Engine Cylinder Head Failures.
- »Engine Throttle Failures.

- »Handlebar and Frontend Failures.
- »Electrical Charging System Failure.
- »All Terrain Vehicles (ATVs) /Recreational Off-Highway Vehicle (ROV)/Utility Vehicle (UTV) Crash Reconstruction.
- »Recreational Off-Highway Vehicles (ROVs) Crash Reconstruction.
- »ATV Throttle Failures.
- »ATV and Utility Guy Wire Collision Accidents.
- »ATV Wheel Knuckle Failures.
- »ATV Ball Joint Failures.
- »ATV Recoil Starter/Compression Release Inspection.
- »ATV Loading Ramp Accident and Analysis.
- »(ATV) All Terrain Vehicles Crashes and Rollover Reconstruction.
- »(ROV) Recreational Off-Highway Vehicles Crash and Rollover Reconstruction.
- »Motorcycle Front Fork Failures.
- »Motorcycle and ATV Inspections.
- »Motorcycle and ATV Standards of Care.
- »Motorcycle Crash Testing.
- »Motorcycle Braking and Skid Testing.
- »Motorcycle and ATV Suspension and Handling.
- »Bicycle Component Failures.
- »Motorcycle Tailbag Inspection.

WORK EXPERIENCE

- 06/02 to Present **THE KILPATRICK GROUP, PA, JAMESTOWN, NC**
Provide Forensic Engineering Services as an expert witness to law firms, public defenders and Insurance companies and testify under oath in depositions and trials in state and federal courts.
- 2/05 to 7/06 **K&S TOOL AND MANUFACTURING COMPANY HIGH POINT, NC**
Quality Control, Process Engineering, Maintenance and Safety Manager
ISO 9001:2000 registered contract manufacturer of machined, formed, punched, fabricated, welded and assembled parts and subassemblies. CNC machined, formed and fabricated, welded and assembled component parts and subassemblies for client companies.
Managed the quality control department and had supervisory responsibilities. Responsible for the ISO quality system, quality manual and other similar documentation and files. Involved in APQP and PPAP for special customers. Made changes and updates to the quality system as needed. Acted as ISO management representative for the company. Organized and scheduled training sessions for company employees on matters of ISO 9001:2000 standards, OSHA safety, human factors and newly hired employees. Managed and performed monthly internal quality audits on quality system elements. Lead and motivated employees to quality check their product. Performed first article inspections with report documentation for both customers and employees utilizing company measuring equipment. Created, followed up, closed and filed quality action plans, corrective action reports, preventive action reports, continuous improvement reports and other similar documentation. Also managed the maintenance program.
Assisted in the design of a bearing press machine for functionality, safety and human factors. Managed and documented all maintenance activities and schedules. Hands-on from time to time.
Managed the installation of all purchased and incoming machinery.
Managed all facility related matters concerning building maintenance, HVAC and electric utilities.
Acted as resident company engineer in all engineering matters including plant engineering, machine and tool design and OSHA 29CFR1910 safety audits and OSHA regulations.
Was company Safety Manager. Created and distributed plant facility evacuation charts.
Performed safety audits on all plant facilities and equipment including kinetic energy punch presses, hydraulic presses, automatic laser cutting machines, vibratory media deburring and cleaning equipment; press brakes, automatic robotic welding machines, CNC machining centers (lathes) and hazardous chemicals including water based metal cutting coolants and

petroleum based oils. Managed the distribution of MSDS and audited all MSDS books. When a safety issue was discovered, the safety issue was corrected.

Worked with the shipping/receiving department regarding the inspection and management of damaged containers and product that were received from domestic and over seas companies.

(Worked for K&S Tool temporarily to earn capital funds for The Kilpatrick Group, PA.)

7/01 to

6/02

SPHERION GREENSBORO, NORTH CAROLINA

Process Verification-Validation Engineer (Contract Engineering)

Provided engineering services to Bristol Myers Squibb, a manufacturer of ostomy, wound care products and pharmaceuticals.

Assisted in the modification and retrofit of production machinery for ostomy pouch manufacturing. Created and implemented process validation protocols IQP, PQP, OQP and DOE and statistical methods with reports per FDA GHTF and cGMP guide lines for approval to launch MK4 ostomy pouch process into production.

Provided engineering support to a new prototype Digital Label Printing Line. Benchmarked the process, gathered downtime data, trouble-shooting of equipment designs, and made recommendations to engineering manager on how to improve uptime. Decreased downtime by 40%. Created written PM schedules and trouble-shooting guides.

Designed and installed a protective cover for a 15 watt class 4 marking laser to meet OSHA, ANSI and ISO safety requirements of a class 1 laser. (Contract assignment was completed)

10/99 to

04/01

ERICO INCORPORATED ABERDEEN, NORTH CAROLINA

Mechanical Design/Manufacturing/Process Engineer

ISO-9002 and UL Listed manufacturer of grounding, electrical and structural support systems for the residential and commercial construction industry. Utilized Microsoft computer software and AutoCad 14 extensively.

Expedited and managed capital and expense projects, cost reduction, continuous improvements integration of OSHA 29CFR1910 safety requirements for ergonomic and lean manufacturing which included spot welding, wire drawing, copper plating, rod straightening, kinetic energy punch presses and cut-to-length operations. Used Six Sigma, SPC, problem solving, root cause analysis techniques, lean manufacturing, PFMEA, DFMEA, APQP, QIP, CIW and Kaizen extensively.

Established and led cross-functional teams for Centers of Excellence throughout the corporation. Established and led Six Sigma, QIP, CIW and Kaisen teams to reduce downtime, increase productivity, train personnel in lean manufacturing techniques, equipment operation theory and preventive maintenance. Developed and implemented a Six Sigma based statistical process and quality control system (SPC) for all departmental processes. Documented and tracked all project time lines, cost, cost savings, downtime reduction and process improvements. Monitored production schedules, inventories, production issues, product scheduling, and scrap levels. Communicated with production scheduler and production manager concerning production runs and production concerns. Created and controlled line documentation such as process flow mapping, work instructions, quality standards instructions, tooling specifications, tooling layouts and control plans.

Coordinated and relocated a complete automated roll forming line from Ohio to the North Carolina facility.

Redesigned blanking press die tooling for 75 ton Minster OBI strut pre-notch punch presses. Implemented SMED. Installed safety blocks required by OSHA 29CFR1910. Installed a coolant spray system to add lubricity to a formally dry punching operation. Human factors studies were performed during the design process. These changes increased tool life three times and reduced replacement tooling cost achieving a total yearly cost savings of \$100,000. As a result of these continuous improvement projects, reversed a negative \$110,000 per month variance to a positive \$40,000 per month variance and reduced setup time by 75%.

Designed and installed an enclosed in-process automated spraying system to apply a rust preventative to strut products to eliminate oxidation problems creating a superior product compared to the competition and met all OSHA 29CFR1910 safety requirements.

Redesigned Flexibar assembly tooling to eliminate scrap and customer claims and achieved a yearly cost savings of \$20,000.

Designed and supervised the installation of a hazardous chemical containment area for the storage of acids, bases and oxidizers per OSHA 29CFR1910 hazardous material regulations.

Designed a 30 foot belt conveyor for strut operations with an ergonomic and easy-to-use automatic ejection mechanism to replace an existing manual conveyor and saved \$8000 by designing and building it in-house. The conveyor was guarded to meet OSHA 29CFR1910 regulations. Human factors studies were performed during the design process.

Performed a complete design load and stress analysis on an existing in-house fabricated below-the-hook lifting device per ASME B30.20 standard. This lifting device was used for transferring 6500 pound sheet metal rolls from pallet to process equipment. It was determined that the lifting device design had not been tested by a second party testing lab and did not have the ASME B30.20 required data plate. The lifting device was permanently removed from service and replaced with a commercially available below-the-hook lifting device.

Trained operators on how to setup and use a spot welder to increase quality and production.

Managed projects and key hourly personnel to expedite and facilitate project work phases to closure. Involved in hands-on maintenance of process and material handling equipment.

Managed spare parts and tooling inventories for two separate facilities.

Member of the Safety Committee. Performed safety audits to enforce OSHA 29CFR1910 regulations of the facility, process, warehouse and material handling machinery and to assure ergonomic working conditions and the use of personal protective equipment. Reported findings to committee members with recommendations. Worked with the safety committee, created and implemented an OSHA 29CFR1910.147 compliant Lock-Out/Tag-Out system for the facility.

Redesigned floor layout for Flexibar process relocation. Redesigned floor layout of maintenance and tool room areas. Redesigned warehouse layout for relocation and steel coil storage and FIFO.

Investigated an accident involving a 75 ton Minster punch press and rollformer.

(Due to a 90 mile commute to work one way and rising fuel prices, resigned position to accept a contract engineering position with Spherion)

2/98 to
7/99

GKN AUTOMOTIVE ROXBORO, NORTH CAROLINA

Automotive Engineer Mechanical Design/Manufacturing/Process Engineer

Manufacturer of automotive constant velocity half shaft assemblies. Responsibilities included expediting and managing capital projects, cost reduction, continuous improvement, ergonomic integration of OSHA 29CFR1910 safety requirements for the assembly of automotive constant velocity half shafts in a Tier 1, ISO9001 and QS9000 facility.

Utilized Japanese philosophies of Kaizen, Poka Yokes, Zero Defects, Brainstorming, Waste Elimination, 5-S, FMEA, lean manufacturing and Kan Ban material control systems. Used Six Sigma, problem solving and root cause analysis techniques extensively.

Extensively utilized a Six Sigma based statistical process and quality control system (SPC) for all assembly cells. Documented and tracked all project time lines, cost, cost savings, downtime reduction and process improvements.

Created and controlled line documentation such as process flow mapping, work instructions, quality standards instructions, tooling specifications, tooling layouts, control plans and SPC documents.

Designed and built special ergonomic assembly tooling and fixturing that met OSHA 29CFR1910 regulations for continuous improvement and new program launches. Human factors studies were performed in the design process. Monitored production schedules, inventories, production issues, product scheduling, scrap levels and communicated with production coordinators concerning production runs and production concerns. Processed ECN's in department.

Was directly responsible for the hands-on repair and maintenance of assembly equipment, machine downtime tracking and improvement flashes across three shifts 24 hours per day. Coordinated maintenance activities with maintenance manager. Was directly responsible for ordering and inventories of all machine component maintenance items, new program, improvement design and replacement tooling. Facilitated and managed quality improvement processes and continuous improvement workshops with respect to each cell, it's operators and equipment.

Managed the installation of new assembly cells for new program launches. Inspected and assessed equipment to meet safety requirements of OSHA 29CFR1910 regulations. Performed machine capability studies, PSW, product master samples, tooling plans, control plans and documented changes for PPAP submission to customers. Created all line documentation for process production launches.

Heavily involved in hands-on maintenance of process and material handling equipment.

5/97 to
1/98

COPELAND CORPORATION HARTSELLE, ALABAMA

Mechanical Design/Manufacturing/Process Engineer

Manufacturer of residential HVAC refrigeration compressors. Manufacturing process machines included: CNC multi-axis machining centers, dial machines, milling machines, boring machines and assembly. Responsibilities included expediting and managing capital projects; cost reduction; continuous improvement; ergonomic integration of OSHA 29CFR1910 safety requirements for machining aluminum pistons and rods, cast iron cylinders blocks and heads.

Utilized Japanese philosophies of Kaizen, Poka Yokes, Zero Defects, Brainstorming, Waste Elimination, 5-S, FMEA, ergonomic lean manufacturing. Used Microsoft computer software extensively and AutoCAD for design purposes.

Redesigned a two machine 4-axis CNC work cell eliminating 3 operators saving \$94,000 in direct labor cost. Human factors studies were performed in the design process. Assisted in the redesign of all compressor bodies for more efficient work holding. Redesigned CNC machining center work holding clamps to match the body redesign for scrap reduction. Processed ECN's in department for product design changes.

Heavily involved in hands-on maintenance of process equipment.

Created work instructions, machinery setup instructions and machinery operation parameters. Created bid packages for capital equipment quotation, cost justifications, appropriations requests. Coordinated maintenance activities with maintenance manager.

(Due to future marriage and relocation, resigned position to accept new position with GKN Automotive)

2/95 to
5/97

KOYO BEARINGS ORANGEBURG, SOUTH CAROLINA

Automotive Engineer/Mechanical Design/Manufacturing/Process Engineer

Manufacturer of high performance automotive wheel bearings. Manufacturing process machines included: CNC multi-axis machining centers, ID and OD surface grinders, drilling and tapping machines, heat-treatment and assembly. Responsibilities included expediting and managing cost reduction, and continuous improvement projects, integration of OSHA 29CFR1910 safety requirements for CNC turning (lathes), grinding and automatic assembly of SAE1055 and SAE 52100 steel bearing inner and outer rings.

Utilized Japanese philosophies of Kaizen, Poka Yoke, Zero Defects, Brainstorming, Waste Elimination, 5-S, FMEA, ergonomic lean manufacturing and Kan Ban material control systems. ISO9002 certification was awarded to Koyo during May of 1996. Was heavily involved with documentation development for certification.

Extensively utilized automated statistical process and quality control system (SPC) which was built into all manufacturing processes.

Traveled to Osaka, Japan to prove off \$6,500,000 of capital equipment including completely automatic CNC Murata MW series and LE type Miyano two axis turning centers (lathes), Koyo and Toyo shoe type centerless grinders and plunge type forming grinders and automated assembly machines. Personally performed floor lay out and supervised equipment installation upon arrival. Assisted in the creation of work instructions, quality standards instructions, tooling specifications and tooling layouts for processes.

Performed continuous improvements of bearing manufacturing process through extensive carbide insert and grinding wheel testing. Saved Koyo \$157,000 per year in tooling cost by changing metal cutting fluids and through carbide insert testing.

Heavily involved in hands-on maintenance of all automated process and material handling equipment.

Received classroom training on how to successfully write CNC coded programs utilizing the G,M,T,S,D,P,N codes to setup a multi-axis machining center for component part production.

Modified Machining CNC programs to reduce cycle time and increase tool life.

Redesigned the loading mechanism of an automatic ABS pulser ring assembly press for changing from an INA to FAG pulser ring meeting safety requirements of OSHA 29CFR1910 regulations.

Authored company math textbook and taught mathematics in classroom setting for testing and screening potential full-time hourly employees. (Resigned to accept new position)

8/94 to
1/95

DML INDUSTRIAL PRODUCTS HICKORY, NORTH CAROLINA

Mechanical Design/Manufacturing/Process Engineer

Manufacturer of high speed steel tooling for the wood and metal working industry.

Manufacturing process machines included: CNC multi-axis machining centers, drill flute grinders, centerless OD grinders, saw blade machining, carbide machining and adhesion and saw blade re-sharpening. Responsibilities included expediting and managing cost reduction, and continuous improvement projects, integration of OSHA 29CFR1910 safety requirements for CNC and NC turning and grinding operations. Responsibilities included expediting and managing capital projects, cost reduction, continuous improvements and ergonomic integration of OSHA 29CFR1910 safety requirements for manufacturing high speed steel tooling.

Designed, built and installed an ergonomic manufacturing process to support a Lindberg homo steam tempering furnace for applying a high temperature dark blue ferric oxide surface treatment for high speed steel drill bits. Designed, built and installed a 60 foot structural steel overhead monorail crane for lifting furnace payloads in excess of 2,000 pounds per ASME B30.11 standard. Crane and equipment met the requirements of OSHA 29CFR1910 crane regulations. Human factors studies were performed in the design process. Created written operation and setup manuals for this operation.

Assisted in the design of an ergonomic manufacturing cell to produce high speed steel S&D drill bits. Equipment included a Hertlein spiral flute grinder, two centerless grinders, a relief grinder, a Winslow drill pointer, tables and gravity conveyors. Human factors studies were performed during the design process. Created written operation and setup manuals for this cell. This cell eliminated three operators and saved DML \$112,320 per year in direct labor cost. Also processed ECN's in department.

Performed grinding wheel tests on Hertlein spiral flute grinders to improve grinding wheel performance and life. Grinding wheels used and tested were made by Norton and Carborundum.

Installed a coolant recycling system to recycle used coolant. Created written operation and setup manuals for this system. This system saved DML \$6,000 per year.

Created bid packages for capital equipment quotation, cost justifications, and appropriations requests.

Coordinated maintenance activities for process and material handling equipment with maintenance manager.

(Accepted new position with Koyo Corporation due to imminent layoff and plant closure)

1/94 to
5/94

CONTROLS SOUTHEAST INCORPORATED CHARLOTTE, NC
Mechanical Design Engineer (Temporary Contract Position)

Was under temporary assignment to assist the design engineering department in the planning, design, manufacture and assembly of a testing apparatus to run experiments and gather transient heat transfer data in the form of Temperature vs. Time in order to generate temperature tables and graphs for the analysis of data to determine the overall heat transfer coefficients and time transients of various heat transfer cements during startup heat flow. Was responsible for all testing and data collection.

After testing and data collection was completed, created a detailed scientific report and submitted it to the company management for their future use. (Contract assignment completed)

10/93 to
12/93

FISHBURNE INTERNATIONAL HENDERSONVILLE, NC
Draftsman (Temporary Contract Position)

Modified engineering drawings for existing products.
(Contract assignment was completed)

12/92 to
4/93

FOXCROFT TEMPORARIES STATESVILLE, NORTH CAROLINA
Draftsman (Temporary Contract Position)

Created detailed instrument drawings for existing products for a client company.
(Contract assignment was completed)

4/92 to
10/92

B&W NUCLEAR TECHNOLOGIES LYNCHBURG, VIRGINIA
Tool Design Engineer

Manufacturer of nuclear fueled electric power generation facilities. Responsibilities included the design of manufacturing tooling for Uranium 235 commercial nuclear reactor fuel assemblies. Managed cost reduction and continuous improvement projects and integration of OSHA 29CFR1910 and NRC safety regulations for manufacturing Uranium 235 commercial nuclear reactor fuel assemblies.

Developed tig spot welding jig and a spring compression leaf jig for assembling rod cluster control assemblies (RCCA). Reduced assembly time 30 minutes per unit, a 99% reduction in assembly time. Human factors studies were performed during the design process. Performed detailed design load analysis for all fuel assembly lifting fixtures. It was determined through the analysis that fixtures met OSHA 29CFR1910 and NRC regulations. Performed safety audits. Tested personal protective equipment human body harness and lanyard equipment used on personnel lifts. Determined that the lanyard design was dangerous and had it removed from service permanently. All tooling design was performed using Personal Designer 3-D modeling CAD software. (Layoff. Further layoffs and downsizing continued)

4/91 to
6/91

MORRIS AND ASSOCIATES GARNER, NORTH CAROLINA
Assistant Engineer

Manufacturer of poultry processing equipment. Responsibilities included modifying engineering hand drawings for existing products. (Resigned to seek other employment)

06/84 to
08/84

VICKERS FLUID PUMPS
Summer Factory Machinist

Was employed by Vickers during a summer job while in college to machine component parts, assemble and test gear pumps. Operated OD grinders to precision grind the OD's of the gear shank and gear teeth. Operated an automated brush machine that polished the gear teeth sides. Worked in assembly to assemble gear pumps. Also operated a test stand to test the pumps for output pressure, function and break-in. Left Vickers to go back to attending college classes at the end of the summer. (Summer Position. Returned to university after summer break)

9/81 to
12/90

Enrolled in college classes for bachelor of science degree program in Mechanical Design Engineering curriculum. Worked part-time and full-time to pay for all college expenses.

11/78 to
4/83

CLARK EQUIPMENT STATESVILLE NORTH CAROLINA
Forklift and Crane Manufacturing/Machinist/Assembly Technician
(Per-College Automotive Work Experience)

Clark Equipment invented the forklift and the Bobcat and was the main competitor to Caterpillar. Manufactured forklifts, earthmoving machines and rough terrain mobile cranes. Manufacturing process machines included: CNC multi-axis machining centers, spur gear shapers, hypoid ring and pinion gear machining centers, axis shaft spline rollers, milling machines, boring machines, drilling and tapping machines, transfer machining line machines and assembly. Assembled drive steer axles, differential gearing units and transmissions for rough terrain telescoping forklifts and rough terrain telescoping cranes. Also assembled and bench tested large transmissions and differential units. Ergonomically modified assembly bench cell layout and increased assembly production from 5 Gallion road grader axles per shift to 10 Gallion axles per shift. Was commended by plant manager for production increase. Human factors were taken into consideration during the assembly design process.

Setup and operated high production high precision automatic CNC operated and NC tape operated metal cutting multi-axis machining lathes including vertical and horizontal multiaxis turret lathes, job shop lathes, broaches, multispindle drill presses and tapping machines, milling machines, transfer lines, shaft spline rollers, gear shapers and shavers, OD and ID surface grinders and boring machines.

Set up and operated OD, ID and surface grinders using resinoid and vitrified bonded grinding wheels. Grinding wheels were dressed using diamond dressers.

Assisted heat treatment department in heat treating rough terrain telescoping forklifts and rough terrain telescoping cranes spur and spiral bevel ring and pinon gears, shaft splines and spindles using methods of oil quenching and induction hardening.

Was a licensed forklift operator; Have operational experience with sitdown forklifts and standup narrow aisle standup forklifts; Operated forklifts each day for the duration of employment. When required, performed plant wide material handling responsibilities by driving forklifts to load machine cells with pallets of component parts and also distributed materials throughout the facility. Have over 1000+ of hands-on day-to-day experience operating forklifts both the electric standup type and propane powered sit-down forklifts. Enrolled at Mitchell Community College evenings part-time for college transfer courses.

7/78 to
11/78

BERNHARDT FURNITURE COMPANY STATESVILLE, NC

Machine Operator (Pre-College Work Experience)

Manufacturer of home wood furniture.

Set up and operated various wood working machines and machined wood furniture components to print specifications. Machine types included turning and knife lathes, routers, shapers, sanders, boring machines and dove tail machines.

(Resigned position to accept new position with Clark Equipment Company)

1/78 to
6/78

BEAUTYMAID MILLS, STATESVILLE NORTH CAROLINA

Machine Operator (Pre-College Work Experience)

Manufacturer of feminine textile products.

Setup and operated cloth handling machines to unfold and transfer cloth from one spool to another.

Unfolded rolls of cloth to be used for product manufacturing.

Operated electric knives to shear and cut several layers of cloth to the shapes of a paper patterns. (Resigned position to accept new position with Bernhardt Furniture Company)

6/75 to
1/78

**KEWAUNEE SCIENTIFIC FURNITURE CORPORATION
STATESVILLE, NORTH CAROLINA**

Shipping Clerk (Pre-College Work Experience)

Manufacturer of scientific laboratory furniture.

Loaded and unloaded commercial tractor trailer trucks using hand trucks and pallet jacks.

Operated dock levelers to allow tractor trailer trucks access to shipping and receiving department. Also operated various wood working machines to machine wood furniture components to print specifications. (Resigned position to accept new position)