

MATT-SALE HOWELL

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OBJECTIVE

A professional position in advanced technology industry that will utilize my skills, industry knowledge, and business acumen, acquired through work experiences and higher education.

WORK EXPERIENCES:

NTID Regional STEM Center

Decatur, AL 2020 - Current

Mechatronic Engineering for Leadership in Deafness

- STEM outreach trainer for the Deaf and Hard-of-Hearing teachers and students encompassing 48 United States. I prepare, plan, administer, teach, and train through conferences, workshops and classes.
- STEM subjects include but are not limited to:
 - SolidWorks CAD
 - Drones
 - Vex VRC Robotics
 - 3D Printing
 - Underwater ROV
 - Vex IQ Robotics
 - 3D Scanning
 - Raspberry Pi
- Drone and underwater ROV competitions for the Deaf and Hard-of-Hearing students

North Carolina School for the Deaf

Morganton, NC 2018- 2020

Automotive Technology & Design Engineer Teacher

- Prepared, planned, administered and taught automotive & engineering courses
- Automotive:
 - Upgraded automotive equipment and tools to match work field usage
 - Organized classroom and shop in a manner that is conducive to learning
 - Instructed students on the appropriate use of safety guards, machines and equipment
 - Guided students in selection of appropriate elective projects and experiments
 - Developed program to offer NC3 certifications in Wheel & Alignment Service field
- Design Engineer:
 - Upgraded all classroom computers specification to today's demands
 - Established SolidWorks Professional CAD on all computers
 - Simulated daily class into engineer project perspective instead of traditional classroom activities
 - Use 3-D printer for prototypes on all students' designs
- Robotic:
 - Coached Robotics team to Excellence, Champion and Design Awards
 - Consulted on robotic projects including design & programming
 - Participated in Vex World Competitions

Detroit Speed & Engineering

Mooresville, NC 2014-2018

Quality Control Manager

- Oversaw Quality of automotive products at receiving, CNC machine, fabrication, and assemble areas
- Developed and established Quality Management System for Detroit Speed's products and procedures
- Launched First Article Inspection procedure to use with SolidWorks Inspection merging with engineer's designs
- Member of engineer team in Research & Development on automotive products
- Researched, analyzed, and developed proposal for new and/or upgrade automotive products
- Identified, diagnosed, and repaired failed automotive products
- Designed custom automotive products for custom project cars

Motorsports Innovation Defense Solutions / JRi Racing Shocks

Mooresville, NC 2009-2014

Quality Control Manager

- Started as Design Engineer position designing detailed 3-D models for full vehicle and vehicle accessories including suspension, brake, hydraulic and cooling systems
- Promoted to Quality Manager Position
- Oversaw and operated Quality Management System including of products and procedure
- Developed and maintained with ISO 9001:2008 Certificate
- Developed and Managed Quality Control Department including three Quality Control technicians
- Participated as member of military vehicle engineer team
- Researched, analyzed, and developed proposals for part upgrades
- Oversaw shock dyno tests and results
- Assembled and disassembled military, high performance, and racing shock products
- Identified, diagnosed, and repaired failed shock products
- Tested prototypes to assess operating functions and determine if goals are achieved
- Reviewed parts to assess fit and provided recommendations for maximum performance outputs

EDUCATION

Rochester Institute of Technology

Degree: Master of Science

Major: Master of Science in Secondary Education

GPA: 4.0/4.0

Rochester, NY 2022

NASCAR Technical Institute

Major: Automotive / NASCAR / Ford FACT Technology

GPA: 4.0/4.0; Attendance: 100%

Mooresville, NC 2009

Rochester Institute of Technology

Degree: Master of Science

Major: Computer Integrated Manufacturing

GPA 3.0/4.0

Rochester, NY 2002

Rochester Institute of Technology

Degree: Bachelor of Science

Major: Mechanical Engineering of Technology

GPA 3.1/4.0

Rochester, NY 2000

Rochester Institute of Technology

Degree: Associate in Applied Science

Major: Electromechanical Technology

GPA 3.3/4.0

Rochester, NY 1996

SKILLS

- leading high-performing teams
- collaborative practitioner
- innovative leader
- fosters teamwork
- strong emotional intelligence

TECHNOLOGY

- | | |
|----------------------------|--------------------------|
| • AutoDesk Fusion 360 | • CorelDRAW |
| • Pro/ENGINEER Wildfire | • DRAWEditor |
| • SolidWorks Professional | • Visual Studio |
| • ProModel | • Adobe Photoshop |
| • VXelements | • Adobe Pagemaker |
| • Simulations | • Adobe Illustrator |
| • Program Logic Controller | • Adobe Premier |
| • C/C++ | • Microsoft Office Suite |

CERTIFICATIONS

- Drone Pilot License 107
- ASE A1 Engine Repair
- EPA 609 Certification
- ALLDATA Certification: Information Specialist Program

HONORS & ACHIEVEMENTS

- Rochester Institute of Technology Director's Honor List
- NRSC Graduate Scholarship
- NASCAR Technical Institute Director's Honors List
- NASCAR Technical Institute Student of Course: Electric & Undercar courses
- NASCAR Crew Chief Award in Automotive: Powertrain course
- NASCAR Live Your Passion Scholarship
- NASCAR Technician of Tomorrow Tuition Scholarship
- Maurice and Maxine Forman Scholarship
- RIT Graduate Scholarship
- Delta Sigma Phi Fraternity