

OBJECTIVE

To obtain a Full-time position in the field of Mechanical Engineering

EDUCATION

Michigan Technological University
BS Mechanical Engineering
Hybrid Electric Drive Vehicle Certificate
GPA: 3.0

Houghton, MI
Expected May 2016

INTERNSHIP EXPERIENCE

Magna E-Car Systems Auburn Hills, MI
Advanced Development/Quality Intern May – Aug 2014

- Developed advanced powertrain configurations for a Ford Focus
- Simulated using numerous and diverse variables to determine maximum efficiency and performance using Simulink
- Tested using HIL, analyzed and reported results
- Determined optimal configuration
- Packaged selected power train configuration to fit future Ford Focus

AUTOMOTIVE ENGINEERING PROJECT EXPERIENCE

MTU Hybrid Electric Vehicle Enterprise Team, 2014 – Present
President of multi-disciplinary and multi-cultural team of 40+ engineers with the goal of designing and fabricating a diesel-electric hybrid Chevy Cruz

- Simulated using numerous and diverse variables to determine maximum efficiency and performance using Simulink
- Conducting thermodynamic simulations of lithium-ion battery pack
- Designing original, unique HIL Laboratory to test all drive train components

Material Science and Engineering Department Research Project, May – Aug 2012

- Validated and implemented test protocol for advanced brake rotor design
- Focused investigation on reasons for observed fuel economy increases

MTU EcoCAR Hybrid Vehicle Enterprise, 2013- 2014

Mechanical Team Leader

- Packaged and wired battery pack, charger and distribution box
- Focused on structural strength, durability and performance

LEADERSHIP

President and Team Leader, Enterprise, 2013– Present

- Supervise all design, testing and production of vehicle components and final vehicle
- Designed project scope, including task details, timelines and deadlines
- Assign tasks to team and mentor, teach and supervise work
- Schedule and conduct team meetings and sponsor meetings
- Serving as Enterprise representative on SAE Executive Board/ME Student Advisory Committee

COMPUTER/TECHNICAL

- MATLAB/Simulink
- Catia V5
- UGNX 5 & 7.5
- AutoDesk
- MIG, TIG, SMAW (certified) and Oxygen-Acetylene welding and cutting
- Manual and CNC Lathe and Mill
- Drill Press and Band Saw