

John Doe

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OBJECTIVE

To obtain a Spring/Summer 2013 Co-op position

EDUCATION

Michigan Technological University

Houghton, MI

BS Electrical Engineering

Expected 2016

Hybrid Electric Drive Vehicle Engineering Certificate

Cumulative GPA: 2.8

INTERNSHIP EXPERIENCE

Hitachi Automotive Systems Americas, Inc.

Farmington Hills, MI

Project: Electric brake booster for low vacuum applications including diesel and hybrid vehicles

- Performed comprehensive static and dynamic tests (Dearborn proving grounds) CD4 vehicle
- Utilized Ford project documentation including FMEA, DVP, Robustness Checklists throughout the design process
- Collaborated with Ford engineers in weekly meetings to maintain timely and effective progress
- Selected to travel to Kentucky for cost estimation conference at Hitachi manufacturing facility
- Performed thorough hardware and software troubleshooting on CD4 vehicle and HIL

ENGINEERING PROJECT EXPERIENCE

Michigan Technological University Enterprise Program – Hybrid Electric Vehicle (HEV)

Project Objective: 3 year competition intended to build a hybrid vehicle (1950 Chevy Pick-up) for General Motors, utilizing their exiting vehicle design process

- **Electrical Team Leader (team of 10)**
- **Present Project Manager (team of 45)**
- Developed and reinvented the HEV operating principles including team hierarchy and documentation strategy
- Created a complex project timeline, using MS Project, to effectively initiate, plan, and deliver projects on time and within budget
- Supervised multiple teams in the detailed modeling of the electrical systems in a HEV
 - **Thermal management team**
 - **Electrified accessories team**
 - **Power electronics team**
 - **HV battery team**
 - **Electric motor team**
 - **HV battery charging team**
- Built detailed sub-system models using Simulink/Autonomie
- Developed a comprehensive component selection strategy
- Designed various low voltage pulse width modulation control systems
- Selected to represent the enterprise at National Eco-Car Workshop in Boston

VARSITY ATHLETE EXPERIENCE

Michigan Technological University Varsity Cross Country and Track and Field

- Balanced 3 hour daily practice and bi-weekly race travel with full-class schedule
- **Developed teamwork, time management/prioritizing skills, competitive character, highly disciplined work ethic, and performance excellence**

LEADERSHIP EXPERIENCE

Project Manager HEV Enterprise Michigan Tech University (2014 - present)

Electrical Team Leader HEV Enterprise Michigan Tech University (2013 - 2014)

Indoor Track Club President Michigan Tech University (2014 - present)

COMPUTER/TECHNICAL SKILLS

Data Acquisition Systems:

- Link
- Canoe
- Transducer installation
- Rammonitor/Ramscope

Design Software:

- AutoCAD
- UGNX
- Solid Works

Simulation:

- MATLAB/Simulink
- LabView
- Autonomie