

Matthew J. Heath
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Objective: To gain experience in the Mechanical Engineering field in a summer co-op/internship

Education: Michigan Technological University (MTU), Houghton, MI

- BS Mechanical Engineering (Expected May 2010)
- Minor Electrical Engineering (Expected Fall 2010)
- GPA 3.30 (Current release GPA as of last Semester)

Engineering Projects:

EcoCar, Hybrid Vehicle Team Enterprise – Mechanical Team

- Project: Design and install an improved hybrid infrastructure into a 09 Saturn Vue
- Problem: Redesign a 2009 Saturn Vue for increased fuel economy & enhanced emissions utilizing advanced hybrid architecture
- Action: Work with competition sponsors to design and install an improved hybrid architecture modeled via Simulink, PSAT, & UGNX
- Results: Project currently in design stage

Challenge X, Hybrid Vehicle Team Enterprise – Hardware Integration Team

- Project: Design and install hybrid infrastructure into a 2005 Chevy Equinox
- Problem: Electrical systems needed to be installed and wired
- Action: Installed, wired, and documented electrical component infrastructure
- Results: Working through-the-road parallel hybrid

Employment: **Mercury Marine, Fond Du Lac, WI** (01/08 – 008/08)

Engine Test and Development Engineer (Co-op)

- Designed engine test instrumentation to be used for marine outboard dynamometer test
- Prepared engines for live fire testing
- Analyzed dynamometer data through Concerto

Treetops Resort, Gaylord, MI

(06/06 – 08/07)

Resort Concierge

- Worked with a team to provide hospitality and transportation services to guest
- Maintained resort vehicle fleet

Leadership: **Eagle Scout, Scenic Trails Council**

- Senior Patrol Leader, Adult Leader (01/05 – Present)
- Junior Leader Training – Participant (06/02), Camp Councilor (06/03 – 06/05)

Michigan Tech SAE, Michigan Technological University Chapter

- Corporate Presentation Chairmen (08/07 – 12/07)
- EcoCar Representative (2008)

Hall President Wadsworth Hall

- Student President of Purgatory Hall – Wadsworth Hall Student Association

Skills:

Technical

Automotive – chassis, drive train, suspension, wiring
Mechanical, Electrical, and Blueprint Schematics
Shop Tool Proficiencies – (Welding, Milling, Lathe)

Computer

Mototune, Motohawk,
Simulink, MATLAB,
Java, PSpice, LabView,
Mathmatica, AutoCad, UGNX
AutoDesk, SolidWorks,
MS Office, Windows OS