

Douglas C. Sarsen

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Current Address:

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Permanent Address:

8525 Old Ledge Ln
Fish Creek, WI 54212
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Objective: A full time position as a Mechanical Engineer

Education:

Michigan Technological University (MTU), Houghton, MI

- BS Mechanical Engineering (Expected May 2008)
- GPA: 3.51/4.0

Employment:

Caterpillar Inc, Peoria, IL

5/07 to 8/07 – Technology & Solutions Division, Engine Development

- Carried out performance and emissions testing on diesel mid-range on-highway truck engines and analyzed test results
- Organized and updated training material for new engine development analysts

Caterpillar Inc, Peoria, IL

5/06 to 8/06 – Transmission Business Unit, PPV Group

- Performed a Robust Engineering synchronizer project including Dynasty modeling and exploring potential noise and control factors for testing a synchronizer actuation system
- Earned 6 Sigma DMAIC Green Belt
- Updated and organized transmission FMEA (Failure Mode and Effects Analysis)

Jungwirth Ace Hardware, Sister Bay, WI

6/05 to 5/07

- Advised customers on plumbing, electrical, construction, and automotive questions

Project Experience:

Challenge X Vehicle Team Enterprise Program – Powertrain Team Leader:

- Project: Reengineer and build hybrid Chevy Equinox to achieve specific performance, emissions, fuel economy, and consumer acceptability goals while maintaining vehicle drivability and safety, test and prepare for annual competitions
 - Removed 2.0L engine/transmission from 2000 Ford Escort and installed in Equinox
 - Verified, installed, and tested vehicle components including the cooling system
 - Tested and troubleshot vehicle powertrain, prepared vehicle for and oversaw emissions testing
 - Current projects – improving exhaust aftertreatment system, vehicle integration/testing

Technical Skills:

- Maintenance/repairs of vehicles including large trucks, equipment, and diesel engines
- Automotive/equipment, internal combustion engine, and mechanical knowledge
- Use of hand and power tools, fabrication, welding, cutting, milling, turning, shop safety

Computer Skills:

- MATLAB, Dynasty, DATK, MathCAD, MS Office, GT-Power, I-DEAS, SolidWorks

Organizational Skills:

MTU SAE Executive Board – member, Challenge X team representative

Paid-On-Call Firefighter - Sister Bay and Liberty Grove Fire Department, Sister Bay, WI
11/03 to 5/07

- Completed Entry Level firefighter training, flashover training, propane fire training
- Operation of all fire apparatus and equipment