

# Christopher J. Van Derven

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## Objective

Seeking a full time mechanical engineering position with duties relating to design and testing in the automotive or aerospace industries.

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## Education

### University of Wisconsin-Madison

B.S. Mechanical Engineering, Senior, Expected Graduation in Spring 2010

Overall GPA: 3.314/4.000 On the Dean's List every semester.

### Notable Coursework

Circuits, Dutch and German Languages, Fluid Dynamics, Heat Transfer, Human Factors and Ergonomics, Hybrid Powertrain Design, Internal Combustion Engines, Materials Science, Machine Design, Manufacturing Processes, Mechanics of Materials, Statistics, Electrical Power Conversion, Technical Communication, Thermodynamics, and Vehicle Dynamics.

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## Work Experience

### GE Aviation, Cincinnati, OH

#### Structures Center of Excellence Coop, May 2009 – August 2009

- Supported engineers working on GE Honda HF120 turbofan engine.
- Assisted in torque – tension testing and bolted joint design of engine cases and frames.
- Developed an electronic engineering design tool database.

#### Engine Services Coop, September 2008 – December 2008

- Worked directly with a production team in a jet engine component repair shop.
- Responsible for implementing lean manufacturing techniques into overhaul of compressor frames and combustion cases.

### Powertrain Controls Research Laboratory, Madison, WI

#### Undergraduate Assistant, June 2008 – Present

- Provided machining and assembly assistance to graduate students researching single and multiple cylinder internal combustion engine powertrain control systems.
- Responsible for the custom CNC machining of a single cylinder engine block.

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## Additional Experience

### UW Formula SAE Racing Team, Madison, WI

#### Brake System Designer, Suspension Group, August 2006 – Present

- Responsible for design and manufacture of brake and hydraulic system for an open wheeled race car.
- Additionally responsible for coordinating and cataloging vehicle testing during track sessions.
- Large amounts of hands on engineering experience in a multi-disciplinary team setting.
- Design, fabrication, and testing experience of systems and parts.
- Manufacturing experience including use of CNC lathe and mill.
- Design experience using Solidworks and COSMOSWorks finite element analysis.

### Computer Skills

#### Engineering Software:

ANSYS, AutoCAD, FeatureCAM, LabView, Matlab, Maple, Solidworks including COSMOSWorks, and Unigraphics NX4 and NX6.

#### Productivity Software:

Adobe Photoshop, Microsoft Office Suite including Word, Excel and PowerPoint, Microsoft Windows.