

**MARK W. BAJOR**  
1530 West Sigler Road, Carleton, MI 48117  
Cell: 734-493-2667 Email: [mwbajor@umd.umich.edu](mailto:mwbajor@umd.umich.edu)

**OBJECTIVE**

Entry level position in mechanical engineering with the opportunity to gain increased knowledge & skills that can aid developmental programs in advanced automotive powertrain

**EDUCATION**

**University of Michigan** – Dearborn, MI

- Bachelor of Science in Mechanical Engineering Expected Graduation : December 2012
- GPA: 3.33

**PROFESSIONAL EXPERIENCE**

**University of Michigan – Dearborn** February 2012 -- Present

**Undergraduate Research Assistant**

- Designed and constructed experimental test apparatus for nano-fluid thermal research for BEV & HEV applications
- Researched the thermal heat rejection characteristics of nano-particle suspensions in powertrain coolants

**Polaris Industries Inc.**, Wyoming, MN May 2011 – August 2011

**Powertrain Engineering Summer Intern**

- Conducted warranty and prototype engine failure analysis for side by side vehicle group
- Performed cost reduction exercises on future MY engines, revealed extensive positive cost reduction opportunity
- Led design and implementation of plastic intake manifold to replace current aluminum intake for future SxS models

**Cummins Filtration**, Cookeville, TN June 2010 – December 2010

**Engineering Co-op**

- Led competitive benchmarking for current fuel filtration and water separation modules
- Applied machine skills to fabricate prototype filter modules and fixtures
- Created destructive testing methods for filter shell housings

**Fusion Welding Services**, Canton, MI August 2009 – May 2010  
Ford Scientific Research Laboratory

**Materials Technician**

- Integral group member of a five-person research team focused on advanced materials characterization
- Significant contributions to components for 2010 EcoBoost and 2011 5.0L engines
- Metallographic analysis experience including Optical & Scanning Electron Microscopy & Instron testing

**University of Michigan – Dearborn** May 2009 -- August 2009  
Electric Vehicle Project

- Led development and research of advanced hybrid-electric propulsion and energy generation techniques

**PROFESSIONAL SOCIETIES**

**Society of Automotive Engineers (SAE)**, Detroit Section September 2008 -- Present  
University of Michigan-Dearborn: Student Chapter – Formula SAE President

**Pi Tau Sigma**

Alpha Pi Chapter: Treasurer -- Mechanical Engineering Honor Society January 2011 – Present

