**OBJECTIVE** To utilize my skills and realize my full potential in a challenging and productive environment.

**EDUCATION Rochester Institute of Technology** – Rochester, NY

**Bachelor of Science in Mechanical Engineering,** May 2012

**Master of Engineering in Mechanical Engineering**, May 2012

**Graduated with Highest Honors**

Liberal Arts Concentrations in Business and Communications

RIT Merit Scholarship recipient

RIT Dean’s List

**SKILLS Software:** Revit, AutoCAD, MATLAB (and Simulink), Solidworks, ANSYS, Pro Engineer,LabVIEW, Microsoft Office (Word, Excel, PowerPoint), Microsoft Windows, Mac OS X

**EXPERIENCE ZDS Design/Consulting Services** **–** St. Albans, WV Jun. 2012 to Present

*Design Engineer*

* Streamlined the adoption of a new software, Autodesk Revit, into the company workflow
* Designed the electrical systems for a building according to guidelines and codes (electrical distribution systems, lighting systems, miscellaneous electrical systems)
* Designed the mechanical HVAC systems for buildings (AHU, VAV, and duct sizing)
* Replaced old methods of design with new, more efficient, and computerized methods

**Impact Sensors** **–** Rochester, NY Mar. 2012 to May 2012

*Engineering Co-op*

* Analyzed massive amounts of data collected from sensors deployed in various locations around the country with MATLAB
* Improved MATLAB algorithms regarding graphics generation, particle detection, particle simulation, and database operations.
* Innovated a process of handling small metal particles (<100 micron) for the purpose of equipment testing

**National Aeronautics and Space Administration** **–** Cleveland, OH Jan. 2011 to Apr. 2011

*Intern*

* Improved the graphical user interface of the Commercial Modular Aero-Propulsion System Simulation version 2 (C-MAPSSv2)
* Used MATLAB and the graphical user interface design environment (GUIDE) extensively
* Efforts culminated in an update to the original program and a published user’s guide

**National Aeronautics and Space Administration** **–** Cleveland, OH Aug. 2010 to Dec. 2010

*Intern*

* Used Solidworks extensively to redraw a computer aided design (CAD) file
* Created custom CAD surfaces to meet the needs of computational fluid dynamics (CFD) analysis

**PROJECTS Senior Design I & II**

* Designed a trans-cutaneous wireless power transmission system
* Coordinated efforts between a multi-disciplinary team of engineers
* Researched into motor-generator relationships, selected “best-fit” motor based on catalog of motor information and scripts to analyze the data
* Delivered in excess of 50 Watts over a 20mm gap and achieved our main objective

*References Available Upon Request*