

Michael Tetlow

Mechanical and Manufacturing Engineering Professional

Mechanical design, Manufacturing process development, and testing experience in R&D and manufacturing environments/
Certified SolidWorks Associate / Hands on fabrication, prototyping, and testing experience / Perl, PHP, C++, Excel Macro,
MySQL, and MSSQL development experience

Work Experience

Pinnacle Architectural Lighting Denver, Colorado

Mechanical Engineer (February 2008-Current)

- Mechanical design of complex lighting configurations using AutoCAD and SolidWorks
- SolidWorks drafting and design experience of sheet metal, steel structure, and aluminum/plastic extrusion
- Research and Development – Including prototyping of new parts including milling of plastic, aluminum, and steel
- Data acquisition and parsing experience using a variety of tools and processes
- Responsible for quality assurance in new and existing manufactured parts including revision control support
- Development and continuing support of automated drawing and product configuration processes
- Field experience with service and warranty sites, as well as putting processes in place to prevent future issues.

Nelson Engineering Company Merritt Island, Florida

Intern (Summer 2007)

- Developed, fabricated, and tested NAVSEA Hydraulic Fluid Filter Phase II SBIR in a small seven person team. The SBIR topic consisted of developing a lightweight hydraulic fluid filter for submarine hydraulic sumps contaminated with both water and particulate, the nature of this project also resulted in critical size and weight requirements.
- Test equipment fabrication and development.
- Extensive testing of the SBIR project in multiple configurations including environmental testing
- Mechanical and Electrical fabrication, assembly, systems integration, and troubleshooting of SBIR prototypes.
- Final SBIR report writing, including a complete design package for delivery to NAVSEA

UCF Office of International Studies Orlando, Florida

Computer Specialist (2006-Summer 2007, Fall 2007-January 2008)

- Web development (PHP, MySQL, ColdFusion, HTML, etc.)
- ArcGIS support
- Hardware deployment and maintenance
- Developed new product requirements in cooperation with internal and external customers

Freebird Inc. Orlando, Florida

Fabricator (2004-2005)

- Designed and built themed aluminum buildings and props

Icarus Exhibits, Inc. Orlando, Florida

Apprentice Welder/Electrician (2003-2004)

- Aluminum MIG and TIG welding and general aluminum fabrication of themed food service and retail kiosks.
- Electrical wiring of food services and retail carts/buildings
- On-site installations of final products including transportation and rigging

Education

University of Central Florida, BS in Engineering Technology: Mechanical Design

2004-December, 2007

- 3.624/4.0 GPA
- Six Sigma and Lean Manufacturing Methods experience
- AutoCAD, SolidWorks, and Pro/E 3D modeling experience
- Electronics Design and PLC Programming experience relating to motion control and automation.