

MICHAEL BARATTA III

Experienced Mechanical designer.

I enjoy working in the Engineering and Design field, I enjoy solving problems and modeling.

EXPERIENCE

NOVEMBER 2016 – PRESENT

DESIGNER, SPEC, LOCKHEED MARTIN – OWEGO, NY

Mechanical design of various types of parts and systems, sheet metal, machined and 3D printed parts and assemblies. Attention to detail and compliance with all drawing standards and modeling practices. Experience with tolerancing / geometric dimensioning and tolerancing. I have helped the electrical design department from time to time with the design of cable assemblies, this includes schematics, choosing connectors and electrical parts etc.

FEBRUARY 2010 – NOVEMBER 2016

MECHANICAL DESIGNER, PYROTEK – CORTLAND, NY

Create models and drawings using Autodesk Inventor 2015 for manufacturing. Produce production prints for the design of furnace refractory "shapes" as well as the corresponding steel and assemblies. Designed molten metal transfer equipment, molten metal filtration equipment. Designed large scale gas combustion equipment. Involved in all aspects of capital equipment project management phases. Required to meet deadlines based on customers plant shut down schedules, design reviews etc. Attention to detail and drawing standards on all drawings produced. Seen as the most senior designer on the staff, completing key designs for Tesla, Alcoa, Oman Rolling Mill and others. Aided in growing the business from 20 – 30 employees to 100+. Proficient in the design of sheet metal, formed plate, large scale weldments, structural weldments, cast refractory / concrete, hydraulics, pneumatics, and gas combustion systems. Took on the role of systems administrator for Autodesk Vault PDM system, creating users setting up access control, supporting 20+ users while still completing key design projects on time and on budget. Developed and manage custom iLogic (visual basic) design automation tools to aid engineering department with the creation of customized standard designs, this included model generation from form input, automatic drawing generation, and file management. Also created design utility tools for uniform title block rules, standard notes, bill of materials automation, and other common tasks that resulted in significant time savings for all members of engineering.

Experience with:

Design of mechanical components

Weldments

Sheet metal

Combustion gas systems

Refractory design

Industrial Furnace design

Capital equipment design

Project organization and management
Shop floor support for manufacturing
Advanced modeling with Autodesk Inventor including complex shapes / surfacing / large assemblies.
Custom CAD automation, iLogic and scripting, Visual Basic

JANUARY 2007 – OCTOBER 2009

DESIGNER COMPUTER BOARD SR, LOCKHEED MARTIN – OWEGO, NY

While working at Lockheed Martin I have gained experience with mechanical circuit card design, along with experience with the total engineering change process. I have gained experience with standard drafting practices and geometric dimensioning and tolerancing. I have worked in a variety of rotations:

Manufacturing: I learned many practical aspects of design

Tactical Wheeled Vehicles program: Performed mechanical design tasks using CATIA V5 and SolidWorks to design various brackets and parts, including sheet metal items and machined parts. I assisted the trucks program migrate their bill of material data and parts into the Windchill PDM system. I helped implement and test the CAITA V5 to Windchill interface with trucks engineering data.

IRM: I helped implement Windchill across the site. I have experience assisting users, holding training classes, testing software, and compiling issues. I am currently the subject matter expert (SME) for Windchill for our group. I also have worked with data migration, and interfaces between the Windchill system and various CAD tools.

EDUCATION

MAY 2005

AAS – MECHANICAL ENGINEERING TECHNOLOGY, BROOME COMMUNITY COLLEGE

MAY 2007

AAS – COMPUTER SCIENCE, BROOME COMMUNITY COLLEGE

SKILLS

- Mechanical Design
- Creo
- Sheet Metal Design
- Additive Manufacturing / 3D Printing
- AutoCAD
- Autodesk Inventor
- Solidworks
- EPDM
- CAD Automation, iLogic, Visual Basic

ACTIVITIES

March 2018 – Present - Village of Owego – Mayor

Manage village of 3,800 residents. Responsible to create and manage a 5-million-dollar budget. Oversee around 50 employees, including public works, wastewater treatment, clerk, police, fire and ems.

2018-2020 - Tioga Opportunities – Board Member

Tioga Opportunities is an organization that supports the people of Tioga County through various programs such as: elderly services, home weatherization, housing, family planning and more.

2018 – Present -Tioga County Land Bank – Board Member

The Tioga County Land Bank is an organization that acquires vacant for closed “zombie” properties that typically are causing blight in neighborhoods and either demolishes them or restores the property for sale in attempt to re-vitalize neighborhoods in our community.

Boy Scouts / Cub Scouts – Certified Leader

2015 – 2017 – Owego Little League, Coach