

# JOSEPH E MAYHER

2100 Sumac St, Longmont, CO 80501 ▪ (724) 882 4204 ▪ joe.mayher@gmail.com

## MECHANICAL - PLASTICS ENGINEER

---

Searching for a design or program management opportunity in a creative environment where my skills and passions can be used to maintain and improve new and existing products.

Progressive Mechanical Engineer with over 8 years of engineering development, design, and project management experience with a strong passion for creativity, innovation, and problem solving. Detail driven, organized, and willing to learn. Excellent communication skills between co-workers, suppliers, and customers, and works well in a team environment. Successful background in plastic and metal injection mold design, part development, and design for manufacturing with a strong mechanical aptitude. Proficient with product and assembly cost reduction through part re-design or manufacturing modifications.

---

## TECHNICAL SKILLS

- Project management, part and assembly design, 3D CAD modeling, aesthetics, prototyping
  - Injection mold design, manufacturing, and vendor logistics for plastic and metal injection molding
  - Machining, fabrication, machine and shop tools, electrical circuits, hands-on technically adept
  - Material properties of plastics and metals, fluid, thermo, and aerodynamics
  - Quality practices: PPAP, DOE, FAI, FMEA, Six Sigma
- 

## SOFTWARE SKILLS

*\*Solidworks \*Pro-Engineer \* Moldflow \* ANSYS Workbench \*Microsoft Office \*Syteline \*IQMS*

---

## ACHIEVEMENTS

- Successfully brought to market various customer and consumer products from a basic idea or differently manufactured design. Worked with the customer to transform their idea into a working 3D model, had prototypes made along with injection molding tooling and controlled the logistics of the entire process through to production.
- Assisted in implementing new Syteline ERP system for a mold shop and am primary expert for executing new inputs and instructing others.
- Effectively sourced dozens of high quality molds in one year for metal and plastic injection molded parts, controlling the logistics, implementing superior company standards, and overseeing and approving the designs before releasing to the customer.

## PROFESSIONAL EXPERIENCE

### **Advance Tooling Concepts – ARC Group Worldwide**

**Longmont, CO**

#### ***Tooling Project Engineer***

**Jan 2016 – April 2017**

- Worked closely with inside mold shop and outside vendors to have plastic and metal injection molds designed and built, taking direction from program management for new part requirements and end customer specifications
- Evaluated customer requested parts and request design for manufacture modifications if necessary then conduct mold design reviews for customer approval
- Assisted in creating internal and external mold build requirement documents and approval forms
- Principal tooling engineering facilitator for Syteline ERP system
- Supported and located new outside mold shops to partner with nationally and internationally (Singapore and China)

### **Namsco Plastics Industries**

**New Kensington, PA**

#### ***Sales/Project Engineer***

**2012 – 2015**

- Designed, quoted, and managed: new parts & molds, existing part improvements & cost reductions, part sub-components from external suppliers, prototyping, testing, material selection, specialty production equipment, & part sampling
- Determined improvements by analyzing cost-benefit ratios of equipment, supplies, or service applications in customer environment, engineering, or proposing changes in equipment, processes, or use of materials or services
- Developed and maintained new and existing customer and supplier relationships

### **Robert Bosch Tool Corporation – Garden and Watering Division**

**Somerset, PA & Peoria, IL**

#### ***Product Engineer***

**2008 – 2012**

- Performed duties in design, project management, R&D, and direct product testing from concept through production
- Designed new and re-designed existing lawn and garden hardware such as water sprinklers and nozzles paying great attention to industrial design, functionality, and quality
- Followed strict Bosch project management and documentation processes throughout all development stages
- Traveled to China (7 trips) and worked with vendors to begin and finalize production approval for projects
- Developed and tested new ideas and concepts directly with R&D machine shop and water testing equipment
- Attended training for project management, Pro Engineer, and engineering database software programs

---

## EDUCATION

***Bachelor of Science, Plastics Engineering Technology | Minor, Business Management***

**2008**

Penn State University

***Associate of Science, Mechanical Engineering Technology***

**2005**

Penn State University

---

## ACTIVITIES AND AWARDS

- ❖ Applied for and obtained utility and design patents for Bosch
- ❖ Completed Six Sigma Green Belt training – 2016
- ❖ Automotive and outdoor activities enthusiast
- ❖ Sports Car Club of America member; participate in local racing events with personally modified sports car
- ❖ Modify, design, install, and fabricate custom automotive parts
- ❖ Electronics, metal and wood working
- ❖ Home beer brewer