



Yale Guan

Mechatronics Engineer

Profile

- Expert SolidWorks operator with 8+ years of experience
- Skilled in mechanical design, and plastic design from multiple years working in product development
- Proficient project manager, lead design team through entire concept to production process of product cycle; with expertise coordinating with Chinese suppliers
- Knowledgeable about materials and their manufacturing process with substantial manufacturing experience
- Substantial prototyping expertise, with all 3D printer types, laser cutting and CNC
- Able machinist with lath, mills, and all hand tools. Strong believer in hands on problem solving

Employment History

Lead Mechanical/Manufacturing Engineer at Robo Technologies GmbH, Vienna

2017 — Present

- Design and manufacturing engineer for the full product development cycle
- Project lead, coordinating between departments, managing production schedules, and organizing weekly team meetings
- Leading mechanical design, manufacturing management and quality control
- Designs all mechanical parts in coordination with industrial design and PCB design departments
- Maintain 3D, 2D CAD for the complete product in SolidWorks
- Create and maintain BOM, testing procedures, assembly SOP, and other production documents
- Devised and implement testing jigs and assembly fixtures for production and testing
- Co-developed packaging design for product packaging and logistics packaging
- Coordinate instructions with Chinese suppliers, manufacturer OEM, and logistics companies
- Draft contracts and agreements with Chinese suppliers
- Support supply and inventory management

Manufacturing Engineer at Teknion/Esmond, Toronto

2016 — 2017

- Manufacturing Engineer of consumer electronics for businesses
- Participated in the design of new products, and improvement of old products
- Worked extensively with customers to develop custom products

Details

Mississauga

Canada

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Links

[Portfolio](#)

[LinkedIn](#)

Skills

Solidworks

Product Design

Plastic Molding

Prototyping

Manufacturing Management

- Coordinated with production staff to improve design and ease of assembly
- Created engineering models for prototyping and manufacturing in SolidWorks
- Developed assembly SOP for existing and new products
- Conducted product testing to ensure products meet all UL and CSA regulations

New Product Designer at Metalumen Manufacturing Inc, Guelph

2015 — 2016

- Developed a new product line of LED lighting products
- Created prototype designs in SolidWorks
- Created and maintain the BOM for new products
- Conducted comprehensive mechanical and electrical testing on prototypes
- Experimented with multiple materials and manufacturing process to achieve desired results
- Collected feedback from factory works on the challenges of producing the product

Product Engineering Assistant at Amphenol Canada Corp, Toronto

2013 — 2014

- Designed and modified reinforced electronic products using SolidWorks
- Took charge of updating 3D and 2D drawings using AutoCAD and SolidWorks
- Conducted comprehensive research on material properties to drive the development of impact and corrosion resistant products

🎓 Education

Honours Mechatronics Engineering, University of Waterloo, Waterloo

September 2011 — May 2016

Automatic Pill Dispenser, University of Waterloo Fourth Year Design Project

- Received Best Overall Award of the Waterloo Mechatronics Department
- Built a machine which automatically dispensed correct medication without any human sorting
- Developed all mechanical design and the mechanism for pill dispenser device

📖 References

References available upon request