

# Joseph Yuan

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## EDUCATION

### Binghamton University

*Bachelor of Science in Mechanical Engineering (BSME)*

**Honors:** Dean's List - Spring 2012, Fall 2013, Spring 2014

**Binghamton, NY**

May 2014

## TECHNICAL SKILLS

**Software:** SolidWorks, PTC Creo, AutoCAD Engineering, PC-DMIS, MATLAB, ERPNext, Trello

**Relevant Coursework:** Solid Mechanics, Fluid Mechanics, Vibrations, Thermodynamics, HVAC, Engineering Project Management, Robotics, Engineering Design & Analysis, Geometric Dimensioning & Tolerancing

**Certifications:** Engineer in Training (EIT), SolidWorks Associate (CSWA)

**Languages:** Proficient in Mandarin Chinese

## EXPERIENCE

### Securitech Group, Inc.

*Mechanical Engineer, Manufacturing Control Engineer*

**New York, NY**

January 2016 – May 2019

- Design for manufacturability by incorporating functional and realistic tolerances on engineering drawings for machined, laser cut, and stamped metal components
- Cross-functionally train with manufacturing team and implement engineering changes to require the use of gauges, functional inspections, and BOMs with a goal to streamline assembly processes while reducing errors
- Establish quick turnaround times for custom products from design to end user and prepare necessary documents to guide assemblers and installers on proper procedures
- Participate in off-site installations to identify and resolve the root cause of defective production models

### Optimax Systems, Inc.

*Coordinate Measuring Machine (CMM) Engineer*

**Rochester, NY**

September 2014 – December 2015

- Programmed and performed accurate outgoing inspections with the CMM on high-precision glass optics within +/- 5 micron tolerances while incorporating customers' GD&T requirements in an efficient manner
- Generated freeform surface equations accurate to 2 microns by reverse-engineering physical optics with CMM
- Documented simple step-by-step operating instructions for the CMM to promote safe and accurate measurements of fragile optics by off-hour technicians

### Royal Dynasty Chinese Restaurant

*Manager, Host, Waiter*

**Rochester, NY**

Summer 2006 – December 2015

- Supervised ten staff members to ensure all duties and responsibilities were carried out correctly and to fruition
- Served customers in a timely manner to increase customer satisfaction and promote efficiency
- Provided customers with accurate wait times in order to maintain a healthy relationship between all parties

## ENGINEERING PROJECTS

### Safebolt Product Development

**Securitech Group, Inc.**

- Designed innovative retrofit classroom lock mechanism with product team to introduce ground-breaking classroom safety lock on a budget while maintaining standard code
- Greatly reduced cost of overall BOM by creating universal components wherever possible to eliminate the need for additional configurations due to different door handings
- Researched flame-retardant plastics to reduce cost of Safebolt components and assembled at off-site testing facility to undergo fire test and obtain fire-rating certification
- Managed and distributed project tasks amongst engineering team to complete documents by specified deadlines

### Product Certification Listings

**Securitech Group, Inc.**

- Obtained fire, windstorm, and anti ligature certification listings and greatly increased the range of customers and certified products as a result
- Created and compiled required documents consisting of critical dimensions and material information for 10 different certifications across 15 different product lines
- Expanded in-house test lab capabilities to include cycle, strength, and security tests in accordance to BHMA standards across all listed product lines
- Organized annual factory inspections to maintain certification status

### Coordinate Measuring Machine (CMM) Continuous Improvement Project

**Optimax Systems, Inc.**

- Greatly increased utilization of \$1 million CMM by introducing methods of scanning freeform optical parts
- Improved machine efficiency by discovering trends, tendencies, and capabilities of the CMM from weekly calibrations and various measurement tests and adjusting PC-DMIS programming procedures accordingly
- Researched best practices for CMM use to maximize company's understanding of the complex machine