

# Jason Gainor

INDUSTRIAL ENGINEER · SUPPORT ENGINEER · UX DESIGNER

☎ (+1) 781-777-3140 | ✉ jasonmgainor@gmail.com | 🌐 jasongainor.github.io | 📷 jmgainor



## Summary

I am a hands-on Industrial Engineer that has a passion for manufacturing. I fill a number of shoes at Onshape daily; tier three support to users, problem solver to Fortune 500 customers, user experience and sounding board to developers and manufacturing expert to peers. I am looking to grow my existing additive manufacturing knowledge with a leader that is pushing boundaries and developing tools in the space.

## Education

### Rensselaer Polytechnic Institute

B.S. IN INDUSTRIAL & MANAGEMENT ENGINEERING

110 8th Street, Troy, NY, 12180

2011 - 2015

## Experience

### Onshape

PRINCIPLE PRODUCT ENGINEER

121 Seaport Ave, Boston, MA

May 2018 - Present

- Lead design, tests, and implementation of standard parts, sheet metal, draft analysis and other tools used in DFM & DFA methods
- Work with manufacturers to create design criteria for engineering software development
- Migrate standard part metadata from legacy vaults to Onshape through REST API
- Provide CAD and REST API support to customers
- Aid professional customers with CAD best practices and advice on manufacturing strategies
- Create internal tools using Python for data manipulation & customer support
- Contribute to administration tools to speed up triaging of customer issues

QUALITY & RELEASE ENGINEER

Jan 2016 - May 2018

- Managed agile development sprints to ensure a high-quality product for end users every 3 weeks
- Ensured that project deadlines are met by developers and outsourced teams
- Tracked and managed development progress through JIRA and automate workflows through REST API
- Managed Onshape's partner ecosystem by testing products and collaborating with partners
- Managed company makerspace and manufacturing education for additive and subtractive processes

### Rensselaer Polytechnic Institute

COMPUTER AIDED MANUFACTURING TEACHING ASSISTANT

118 8th Street, Troy, NY 12180

May 2014 - Dec 2015

- Responsible for checking and running machine code on a Haas VF-2 and MiniMill machine centers
- Taught students:
  - Feeds, speeds, fixturing techniques and GD&T practices
  - How to read and write G-code by hand
  - How to program tool paths using MasterCAM

### Northeast Conveyor

MACHINIST & ASSEMBLER

Lima, NY

May 2015 - Aug 2015

- Machined stainless steel parts on a manual 3 axis mill
- Assembled, manufactured, and planned install of production assembly conveyors in production environments

### Harlan-McGee of North America

DRAFTSMAN

Ballston Spa, NY

May 2014 - Nov 2014

- Designed buildings and renovations to meet or exceed New York State Building Code using AutoCAD
- Communicated with suppliers and contractors to best satisfy customers

## Projects

### MasksOn PPE non-profit (<https://maskson.org/>)

Boston, MA

MANUFACTURING & DESIGN LEAD

March 2020 - April 2020

- Lead design reviews to ensure a safe and reliable product from ideation to production in three weeks
- Enforced responsible PDM practices early for ease of traceability in medical board reviews
- Lead implementation of PPE unit assembly line in factory in Haverhill, MA
- Fulfilled early demand with surgical-grade 3D printed SLA-parts while working with injection mold supplier
- Established and fortified supply chain to scale from 500 to 1500 manufactured units per day
- Designed and implemented final assembly test fixtures to ensure safety of units
- Transitioned product from design to manufacturing in Haverhill, MA factory utilizing the principles of Lean Six Sigma

### RPI Formula SAE (<http://www.formularpi.org/>)

Troy, NY

CHASSIS, SUSPENSION AND AERODYNAMIC TEAM: LEAD PROJECT MANAGER

September 2012 - December 2015

- Responsible for quality of parts and timely completion of projects
- Led design reviews to help younger members improve DFM & DFA and improve design efficiency
- Led competition manufacturing utilizing additive processes when possible for strong and fast parts
- Ensured supplies and materials were in stock
- Managed sponsor and supplier relations

SUBSYSTEM LEAD DESIGNER

- Used 3D surfacing to design SLS-printed air intake with spline geometry, optimized internal flow utilizing CFD
- Used FEA in design of complex geometry aluminum parts for CNC machining, utilized DFM & DFA methods
- Developed a wet layup molding process to create complex 3D geometry carbon fiber parts in house
- Designed, built and executed tests to produce, to validate or improve