Jason **Gainor**

Industrial Engineer · Support Engineer · UX Designer

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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 manufacturing knowledge with a leader that is pushing boundaries and developing tools in the space.

Education

Rensselaer Polytechnic Institute   *110 8th Street, Troy, NY, 12180*
B.S. in Industrial & Management Engineering   *2011 - 2015*

Massachusetts Institute of Technology
MicroMasters in Principles of Manufacturing   *Expected certification: March 2021*

Experience

Onshape   *121 Seaport Ave, Boston, MA*
Principle Product Engineer   *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   *118 8th Street, Troy, NY 12180*
Computer Aided Manufacturing Teaching Assistant   *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   *Lima, NY*
Machinist & Assembler   *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   *Ballston Spa, NY*
Draftsman   *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

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

Mindful fidgets (https://www.mindfulfidgets.com/**)**
Designer   *November 2017 - June 2019*
- Designed in CAD a wrist-mounted fidget spinner for special needs classrooms
- 3D printed prototypes on Formlabs Form 2 printer for fast design iteration
- Helped sourced shop that handled contract manufacturing, QA, packaging and shipping in Northern California