

# Jacob C. Willette

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Maine/Boston/New Hampshire Areas • 207- 577-1845 • jacobcwillette@gmail.com

## Education

**Wentworth Institute of Technology | Boston, MA**  
Bachelor of Science in Mechanical Engineering

**Class of 2022**  
**Magna Cum Laude**

## Skills

**Software:** Solidworks, Creo ProE, Microsoft Office Suite, Solidworks PDM

**Manufacturing:** Additive Manufacturing, CNC Machining, Milling and Lathe work, GD&T

**Design:** Fatigue and Reliability analysis, Finite Element Analysis, Revision Control Systems, Rapid Prototyping

## Certifications

**Solidworks Certified Professional in Mechanical Design (CSWP)**

**May 2017**

**Solidworks Certified Associate in Simulations (CSWA-S)**

**April 2022**

**SME Certified Manufacturing Technologist (CMfgT)**

**August 2022**

**Stratasys Additive Manufacturing Certification Program**

**April 2020**

## Experience

**Mechanical Equipment Engineer | Entegris | Bedford, MA**

**September 2022 – Present**

Designed and brought to fruition improvements to the manufacturing process at Entegris's Bedford plant. Projects were as small as sensor brackets and as large as complete process redesigns. Frequently made prototypes and iterated on designs to find the ideal solution for a particular area. Designed parts for a variety of niche environments where abnormal design considerations must be taken into account (e.g. extreme cold, extreme hot, vacuum, no lubrication, etc.).

**Mechanical Engineering Co-Op | Savant Systems Inc. | Hyannis, MA**

**September 2021 – January 2022**

Assisted mechanical engineers with product design initiatives with the use of 3D modeling. Researched and assisted in the development of new and innovative ideas, material selections and processes through prototyping and analysis. Made engineering change orders and documented mechanical BOMs. Interfaced with contractors and design consultants outside of the company.

**Quality & Continuous Improvement Co-Op | ABB Inc. | Auburn, ME**

**January 2021 - May 2021**

The purpose of this role is to expand the Co-op's knowledge on how to implement lean manufacturing and deliver strong projects for the plant with results that will help improve safety, quality, and productivity for the department. Made spreadsheets to collect data for the quality department and helped improve quality practices.

## Leadership / Activities

**Member of Outliers Robotics Corporation Board of Directors | Portland, ME**

**October 2021 – Present**

On the board of directors for The Outliers Robotics 501(c)(3) organization. Responsible for voting at board meetings and exercising bylaws of the corporation. Note that Outliers Robotics is a nonprofit high school FRC team.

## Interests

Rock Climbing, National Geographic, 60's Music (Grateful Dead, Dylan, Hendrix, etc.), Archaic technology

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## References

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**Jonathan Amory, Former Boston Dynamics Engineer, Engineering Teacher/Mentor**

Waynflete School  
207-838-1614  
[jamory@gmail.com](mailto:jamory@gmail.com)

**Peter Corsini, Dir. Mechanical Engineering, Former Manager**

Savant Systems Inc.  
508-683-2518  
[peter.corsini@savant.com](mailto:peter.corsini@savant.com)

**Jeremy Lord, Quality Technician, Former Direct Supervisor**

ABB Inc.  
207-786-5117  
[jeramy.lord@msambrgio.us](mailto:jeramy.lord@msambrgio.us)

**Richard Bourgeois, Quality Manager, Former Manager**

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## CSWP



## CSWA-S

