Reilly Webb

30 Riverside Farm Drive, Lee NH 03861 • (603) 591-0481 • webbreilly@gmail.com

**Objective:** To work in a passionate engineering team devoted to accelerating the development of human spaceflight and exploration

**Education****: University of New Hampshire** – *Peter T. Paul College of Business and Economics* **Aug. 2018 – May 2020, Anticipated**

GPA: **4.0/4.0** | Masters of Business Administration – Part Time

* Specialization in Business Analytics

**University of New** **Hampshire** – *College of Engineering and Physical Sciences* **Aug. 2015 – May 2018**

GPA: **3.71/4.0** | B.S, Mechanical Engineering

* Magna Cum Laude - UNH University Scholar
* Completed program one full year early
* Active member and presenter for UNH American Society of Mechanical Engineers and Students for the Exploration and Development of Space

**Tech Skills:** Solidworks | Mastercam | MATLAB | 3D Printing | ECM | CNC 5-Axis Mill | Multi-axis Grinding | Water Jet | GD&T

**Experience****: TURBOCAM International – Barrington, NH Sept. 2018 – Present**

*Manufacturing Engineer – TURBOCAM Aero Engines Division*

* Responsible for finish airfoil yield of HPC stator stages of Pratt & Whitney Geared Turbofan Jet Engines through both electro-chemical machining and 5-axis milling operations
  + Developed multi-physical theoretical model of pulsed ECM for this application using FEA
  + Iterate cathode and anode geometry to stabilize ECM processes and improve yield
  + Perform statistical process control of finished airfoil data to identify and reduce sources of variation by proactively retargeting ECM and 5-axis mill CNC programs
* Prototype potential customer part orders by reviewing drawings and designing machining operations from forging to finished part
* Qualify incoming stock material by inspecting material properties and performing machinability tests
* Supervise and train engineering new hires and interns

**TURBOCAM International – Barrington, NH May 2018 – Aug. 2018**

*Engineering Intern – TURBOCAM Aero Engines Division*

* Redesigned fixtures and 5-axis milling programs to reduce cycle time of roughing operations of jet engine compressor parts
* Worked with material vendor to improve forging geometry which reduced cycle time and total Inconel scrap
* Implemented barcode scanning automation solution for OMAX waterjet machines to reduce setup time by 80%
* Developed scripts to automate repetitive engineering tasks using Visual Basic and Batch

**UNH Students for the Exploration and Development of Space – Durham, NH May 2018 – Aug. 2018**

*Club Founding Member and Senior Project Lead*

* Assisted in establishing the first Students for the Exploration and Development of Space chapter at UNH
* Lead an interdisciplinary team of 10 to design and manufacture UNH’s first multistage rocket for the University Student Rocket Competition
* Presented at the Undergraduate Research Conference and won 2nd place for Engineering Competition Teams
* Continue to advise the team after graduation and assist with machining hybrid rocket engine parts through TURBOCAM

**Outreach: UNH Innovation: Makerspace – Durham, NH March 2017 – present**

*Executive Board Member and Weekly Volunteer Mentor*

* Foster innovation in the UNH community by assisting students with prototyping designs of their own creation
* Program and operate 3D printers, CNC mill, laser cutter, vinyl cutter, electronics lab, and more
* Participate in Board meetings to improve the Makerspace and expand student outreach

**Other Skills:** Operation Management | Ownership and Independence | Creativity and Problem-Solving | Root Cause Analysis