

# Reilly Webb

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

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**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

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

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**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 2<sup>nd</sup> place for Engineering Competition Teams
- Continue to advise the team after graduation and assist with machining hybrid rocket engine parts through TURBOCAM

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**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

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