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# Peter Ha

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## Education

### **Boston University**

**Class of 2022**

**GPA: 3.41**

Majoring in mechanical engineering with a concentration in aerospace engineering and a minor in political science

Relevant Coursework: Aerodynamics, Measurement and Instrumentation, Heat Transfer, Fluid Mechanics, Energy and Thermodynamics, Manufacturing Processes, Mechanics of Materials, Material Science, Intro to CAD, Electric Circuits, Probability Statistics and Data Science, Computational Linear Algebra

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## Relevant Experience

### **Rogue Space Systems Corporation / Aerospace Engineering Intern**

**May 2020 - Present**

Integrated components and their interfaces for a 12U cubesat on a rapidly evolving mission on a tight timeline

Liaised the integration of various parts from several manufacturers, ensuring their compliance with internal and external design criteria

### **Boston University Rocket Propulsion Group / Vice Director, Engine Development Lead**

**September 2018 - Present**

Pivoted from a new engine architecture towards iterating on a proven heritage, streamlining our testing timeline with a heavy focus on reducing cost, manufacturing difficulty, and system complexity

Led a team of undergraduate and graduate students on a very tight timeline and budget in the design of a liquid bi-propellant, regeneratively cooled rocket engine

Elected to serve as Vice Director, organizing and leading the team in both a technical and bureaucratic capacity and enabling the team to continue functioning throughout the uncertain circumstances of the COVID-19 pandemic

### **FIRST Robotics Team 125: The NUTRONS / Mechanical Student**

**September 2014 - April 2018**

Designed, machined, and assembled engineering solutions for four robots, ranging in complexity from movement to manipulation systems

Served as a leading mechanical student, finding solutions to complex engineering problems while working with and leading fellow high schoolers in designing a competition robot

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## Other Experience

### **Committee to Elect Jay Gonzalez / Fellow**

**July - November 2018**

Organized, canvassed, and called in a field-focused approach to promoting and supporting Jay Gonzalez's campaign for governor of Massachusetts

### **Office of Senator Elizabeth Warren / Intern**

**August - September 2017**

Acted as a liaison between constituents and government, determining how best to resolve problems and working with the appropriate staffer to do so

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## Skills

### **Design and Analysis**

Rapid prototyping, design for manufacturing, design for assembly, robotics, rocket propulsion, SolidWorks, SolidWorks FEA, Solidworks Flow Analysis, MATLAB, Python 3, Limited Ansys

### **Fabrication**

Manual and CNC mills, manual and CNC lathes, 3D printing, GibbsCAM