

# Bryan Thomas

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## EDUCATION

<b>Northeastern University   Boston, MA</b>	<b>MAY 2027</b>
<i>Candidate for Bachelor of Science, Mechanical Engineering</i>	
Courses: Thermodynamics, Mechanics of Materials, Electrical Engineering, Understanding Design, Differential Equations and Linear Algebra, Calculus I-III, Cornerstone of Engineering, Physics I-II	
<b>University College Dublin   Dublin, Dublin IR</b>	<b>SEP 2023 - DEC 2023</b>
<i>Northeastern University International Program</i>	
<b>California State Polytechnic University   Pomona, CA</b>	<b>JUNE 2021 - AUG 2021</b>
<i>Cybersecurity Technology Program</i>	
<b>Mount Olive High School   Mount Olive, NJ</b>	<b>SEP 2019 - JUNE 2023</b>
<i>High School Diploma</i>	
Activities: FIRST Robotics, MATE, AFJROTC, Varsity Tennis, Science Olympiad, TSA, DECA, FBLA	
Awards: High Honor Roll 2019-2023, ALJS (Boys State), AFJROTC Cybersecurity Scholarship, National Honor Society and Honor Societies for English, Math, Science, and AFJROTC, 4 Year Varsity (Tennis) and Captain, AFJROTC Director of Cyber	

## SKILLS

<b>Programming Languages:</b> Python   Java   MATLAB   HTML   C++   LINUX   UBUNTU   MS SQL   KALI Linux
<b>Computer software/ frameworks:</b> Microsoft Office   Google Suite   SolidWorks   Adobe Creative Suite
Arduino IDE   Autodesk AutoCAD   MATLAB   Windows OS   Linux OS   Onshape   Notion   Canva
<b>Fabrication:</b> 3D Printer, Water Jet, Laser Cutter, Soldering Iron, Bandsaw, CNC Mill, Lathe, Hand Saw
<b>Languages:</b> English, French, Hindi

## PROJECTS

<b>SEDS NEU Lunar Rover   Mechanical Team   Boston, MA</b>	<b>JAN 2025 - Present</b>
• Designing and fabricating a lunar rover with SolidWorks, water jetting, and 3D printing to endure lunar conditions to compete in the national LUNABOTICS challenge held by NASA	
• Rapid prototyping with 3D printing, PCB planning, soldering, and ANSYS FEA	
<b>Handheld Vacuum   Personal Project   Boston, MA</b>	<b>MAR - DEC 2024</b>
• Designed and created a working handheld vacuum using SLA 3D printing, CNC milling, and water jetting	
• Developed the design by analyzing GD&T drawings and using MATLAB and SolidWorks for FEA	
<b>Aerospace NU - VTOL Aircraft   Mechanical Team   Boston, MA</b>	<b>JAN - JUNE 2024</b>
• Designed and fabricated a Vertical Take-off and landing aircraft in SolidWorks and AutoCAD, using machine shop skills for manufacturing and utilizing carbon fiber for weight efficiency	
<b>Cornerstone of Engineering - Educational Exhibit   Class Project   Boston, MA</b>	<b>JAN - APRIL 2024</b>
• Created an interactive K-8 exhibit on oil pollution using Arduino, AutoCAD, SolidWorks for the exhibit and Canva and Adobe InDesign for the informational, winning first place for overall design of all the projects	
<b>FIRST Robotics   Co-Captain   Mount Olive, NJ</b>	<b>SEP 2019 - JUNE 2023</b>
• Learned electrical wiring, testing and design skills, like soldering, PCB utilization and machine shop skills	
• Managed over \$120,000 from sponsors and donors while increasing recruitment by over 150%	

## ENTREPRENEURSHIP AND LEADERSHIP

<b>EduRight   Co-Founder   Boston, MA</b>	<b>JUNE 2024 - Present</b>
• Organize global and local meetings with educators, aiding 500+ students and teachers in 5+ countries	
<b>Millenium Fellowship   Fellow   Boston, MA</b>	<b>JUNE - DEC 2024</b>
• Represented Northeastern University at the UN Center for Education (1 of 10 from 2,500+ scholars)	
• Collaborated with leaders in education, gaining insight into nonprofit partnerships and philanthropy	
<b>International Relations Council   Delegate   Boston, MA</b>	<b>JAN 2023 - Present</b>
• Represented Northeastern in national and international political simulation events like Model UN and Model NATO, working on diplomacy skills, public speaking and knowledge of international relations	
<b>Coders Den   Co-Founder   Mount Olive, NJ</b>	<b>JAN 2022 - Present</b>
• Created a cybersecurity education program, teaching 100+ high schoolers the basics of ethical hacking	

## AWARDS AND INTERESTS

<b>Awards:</b> Design Award – Cornerstone of Engineering, Coachtopia Scholarship, Model Arab League – Outstanding Delegate, Jersey Boys State, IMNATO Distinguished Delegate, Outstanding Novice – APDA Debate, All Conference Tennis, Technology Student Association National Technology Bowl
<b>Interests:</b> Tennis, Aviation (PPL), International Relations, Music (Violin), Travelling, Outreach, Poker