

# Bryan Thomas

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## EDUCATION

**Northeastern University | Boston, MA**

**MAY 2027**

*Candidate for Bachelor of Science, Mechanical Engineering*

Courses: Thermodynamics, Mechanics of Materials, Electrical Engineering, Understanding Design, Differential Equations and Linear Algebra, Calculus I-III, Cornerstone of Engineering, Physics I-II

**University College Dublin | Dublin, Dublin IR**

**SEP 2023 - DEC 2023**

*Northeastern University International Program*

**California State Polytechnic University | Pomona, CA**

**JUNE 2021 - AUG 2021**

*Cybersecurity Technology Program*

**Mount Olive High School | Mount Olive, NJ**

**SEP 2019 - JUNE 2023**

*High School Diploma*

Activities: FIRST Robotics, MATE, AFJROTC, Varsity Tennis, Science Olympiad, TSA, DECA, FBLA

Awards: High Honor Roll 2019-2023, ALJBS (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

**Programming Languages:** Python | Java | MATLAB | HTML | C++ | LINUX | UBUNTU | MS SQL | KALI Linux

**Computer software/ frameworks:** Microsoft Office | Google Suite | SolidWorks | Adobe Creative Suite |

Arduino IDE | Autodesk AutoCAD | MATLAB | Windows OS | Linux OS | Onshape | Notion | Canva

**Fabrication:** 3D Printer, Water Jet, Laser Cutter, Soldering Iron, Bandsaw, CNC Mill, Lathe, Hand Saw

**Languages:** English, French, Hindi

## PROJECTS

**SEDS NEU Lunar Rover | Mechanical Team | Boston, MA**

**JAN 2025 - Present**

- 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

**Handheld Vacuum | Personal Project | Boston, MA**

**MAR - DEC 2024**

- 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

**Aerospace NU - VTOL Aircraft | Mechanical Team | Boston, MA**

**JAN - JUNE 2024**

- 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

**Cornerstone of Engineering - Educational Exhibit | Class Project | Boston, MA**

**JAN - APRIL 2024**

- 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

**FIRST Robotics | Co-Captain | Mount Olive, NJ**

**SEP 2019 - JUNE 2023**

- 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

**EduRight | Co-Founder | Boston, MA**

**JUNE 2024 - Present**

- Organize global and local meetings with educators, aiding 500+ students and teachers in 5+ countries

**Millenium Fellowship | Fellow | Boston, MA**

**JUNE - DEC 2024**

- 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

**International Relations Council | Delegate | Boston, MA**

**JAN 2023 - Present**

- 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

**Coders Den | Co-Founder | Mount Olive, NJ**

**JAN 2022 - Present**

- Created a cybersecurity education program, teaching 100+ high schoolers the basics of ethical hacking

## AWARDS AND INTERESTS

**Awards:** 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

**Interests:** Tennis, Aviation (PPL), International Relations, Music (Violin), Travelling, Outreach, Poker