

## Gianluca Byrnes

Luca.Byrnes@hotmail.com | 11600 Lawter Lane, Clifton, VA | 571-550-0301 | <https://lucabyrnes.com/>

### Education

---

**TUFTS UNIVERSITY**, Medford, MA  
Bachelor of Science in **Engineering Physics**

Expected May 2025  
Senior, **CGPA: 3.72/4.0**

### Professional Experience

---

#### **Systems Integration Engineering Senior Intern**

Summer 2024

*Lockheed Martin, Manassas VA*

*Supervisor: Sumon Nandy*

- Expanded previous summer role to develop and implement test cases for automated testing, reducing costs and accelerating engineering cycles.
- Collaborated with cross-functional teams to enhance system reliability and integration processes, streamlining testing procedures across complex systems.
- Demonstrated leadership in project execution, resulting in an offer of full-time employment upon graduation.

#### **Systems Integration Engineering College Intern**

Summer 2023

*Lockheed Martin, Manassas VA*

*Supervisor: Sumon Nandy*

- Provided hands-on systems integration support across software, hardware, and networking in the Rotary Mission Systems (RMS) lab facility.
- Installed, tested, and resolved issues in large-scale distributed server environments, ensuring seamless functionality and minimizing downtime.
- Developed troubleshooting protocols that improved the efficiency of issue resolution across multiple platforms and systems.

#### **Engineering Intern**

Summer 2022

*National Technologies (NTI), Manassas, VA*

*Supervisor: Michael Woodard*

- Worked alongside project managers to upgrade scheduling software, transitioning the company to a scalable platform supporting future expansion.
- Implemented an asset management service that significantly improved the tracking and allocation of equipment and personnel.
- Gained valuable experience navigating commercial business environments, excelling in a collaborative team setting and consistently meeting project deadlines.

### Honors and Awards

---

- Invited participant to the Virginia Aerospace Science and Technology Scholar (VASTS) Summer Camp 2020
- Tufts Dean's List: 2021, 2022, 2023, 2024
- Scored 800 on math section of SAT

### Activities

---

- Design and manufacturing of 4-DoF Robot arm and self-balancing Robot
- Design of PCI-Express DMA Card/PCB
- Control Systems Design with Drone and RC Airplane piloting
- Author of Children's Book "Car Mates" published in September 2020
- Member of IEEE, Robotics and Automation Society

### Skills

---

2D/ 3D CAD	Controls and Feedback systems	Embedded development
Python	Linux	Hardware PCB design
C++	MATLAB	FPGA Design