

## Millan Taranto

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### SUMMARY

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Mechanical engineering junior with an extensive robotics background. FIRST alumni of eight years, founder and captain of two world championship teams, received over 30 awards, and commended by the Lieutenant Governor of Massachusetts for community outreach and excellence in STEM. Secured \$500,000 in backing to fund a state-of-the-art MakerSpace at Saint John's High School, establishing a strong foundation for STEM education.

### EDUCATION AND ACADEMIC AWARDS

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**University of Massachusetts Amherst**, Commonwealth Honors College  
*Bachelor of Science in Mechanical Engineering, GPA: 3.9*

**Anticipated Graduation - May 2023**

### EMPLOYMENT

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#### **Mechanical Engineering Co-Op at Columbia Tech Engineering**

**June 2021 - August 2021**

- Interfaced and coordinated with senior mechanical engineers to build, troubleshoot, verify, and validate engineering prototypes against specifications and test plans for an autonomous sorting conveyor system
- Designed, detailed, and modeled complex mechanical systems associated with electro-mechanical systems
- Reviewed and revised assembly work instructions; provided critical modifications, resulting in an impactful improvement in reliability and efficiency

#### **Mobile Phone Repair**

**July 2015 - August 2019**

- Founded company to troubleshoot and repair mobile phone screens

### ENGINEERING EXPERIENCE

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#### **UMass Robotics Team - NASA Lunabotics Competition**

**September 2020 - Present**

- Mechanical Team Lead of twelve; robot design team and joint team operations
- Designed a mining robot that autonomously excavates and deposits regolith in a simulated lunar environment
- Prototyped and fabricated lead screw linear actuators, conveyor systems, and a custom chassis

#### **Formula SAE - Chassis Team**

**September 2019 - November 2021**

- Created components using SolidWorks and Ansys for stress analysis and optimization
- Designed the frame and bodywork to improve rigidity and provide additional downforce

#### **American Society of Mechanical Engineers - Student Design Competition**

**September 2019 - November 2020**

- Appointed as Executive Board Member
- Provided team members with the robot design process to build a robot that creates paper structures

#### **Saint John's Robotics (FIRST); Pioneer Robotics, Team 12589**

**June 2017 - April 2019**

#### **Home-based Robotics (FIRST); A Few Loose Screws, Team 8681**

**July 2014 - April 2017**

- Team founder and captain
- Placed 20th at the FTC World Championship; World ranked top 0.5%, State finalist five years
- Commended by Lieutenant Governor Karyn Polito of Massachusetts

#### **MIT Beaver Works Summer Institute Scholar**

**June 2018 - August 2018**

- Selected as one of 200 international robotics students
- Built, programmed, debugged, and hacked a 3D printer

### SKILLS

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**Software:** SolidWorks, Ansys, MATLAB, Autodesk Inventor, Microsoft Word, Excel, PowerPoint

**Machine Working:** CNCs, lathes, welders, 3D printers, laser cutters, grinders, band saws, drill presses, chop saws