

# GEORGE LAWSON MATHEW

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## EDUCATION

**Tufts University**, Medford, MA August 2017 - present  
Bachelor of Science in Mechanical Engineering, Expected May 2021  
Minor in Computer Science, GPA: 3.5  
*Relevant Coursework:* Thermodynamics, Machine Design, Differential Equations, Robotics

**University College London**, London, UK September 2019 – June 2020  
Study Abroad: Mechanical Engineering  
*Relevant Coursework:* Fluid Mechanics, Dynamics and Control, Materials

## SKILLS

**Software:** Microsoft Office; Adobe: Photoshop, Illustrator; Autodesk 3ds Max, SolidWorks  
**Programming Languages:** Python, C++, MATLAB, R, HTML, CSS, JavaScript

## ENGINEERING EXPERIENCE

**Rytec Corporation**, IL, *Mechanical Engineering Intern* June – August 2019

- Assessed hundreds of engineering drawings to compile a bill of materials and to minimize dimensions of 5 high performance doors
- Completed data entry using Microsoft Excel to create databases about materials and dimensions of the products for company organization purposes

**Tufts Student Teacher Outreach Mentorship Program**, *Mentor* September 2017 – May 2019

- Created, led, and implemented engineering curricula in local elementary school classroom
- Expanded the students' knowledge of and exposure to engineering by using Lego kits, novel engineering, and presenting problems to solve

## PROJECTS

**High Altitude Sonic Anemometer Payload**, Tufts University September 2020 – December 2020

- Managed and scheduled meetings for a 5-person team to build a balloon payload costing less than \$500 to show the feasibility of the Tufts sonic anemometer at high altitudes
- Programmed complementary sensors as well as the sonic anemometer to log output data
- Assembled 3D printed parts and electronics in an insulating enclosure as final prototype

**Ball Line Launcher**, University College London October 2019 – February 2020

- Led a 5-person team to create a prototype of an automated ball launcher according to IMechE competition rules
- Designed a CAD model of the ball launcher; laser cut and 3D printed parts for prototype

**Virtual Reality Project**, Maine East High School December 2015 - May 2016

- Created a virtual 360 video tour of a Shedd Aquarium exhibit by working with Maine East Tech Genius Club and Shedd Aquarium Teen Lab

## WORK EXPERIENCE

**United States Drug Testing Laboratory**, *Specimen Technician* June 2018 – September 2018

- Prepared at least 100 samples from specimens to send to testing team daily
- Mastered knowledge about keeping a chain of custody and using standard operating procedures in order to work in laboratory

## ACTIVITIES

**Schuler Scholar Program**, IL, *College Scholar* May 2013 – present

- Selected to receive a four-year, \$10,000 scholarship as part of a college access and leadership program for highly motivated, first generation, college students
- Explored programming and robotics during Carleton Summer Computer Science Institute