Samuel Thomason

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EDUCATION

Columbia University in the City of New York **New York, NY**
Bachelor of Science in Mechanical Engineering | Minor in Computer Science Expected 2026

- **GPA:** 3.7 / 4.0
- **Relevant Major Coursework:** Mechanics, Physics 1-3, ODE, Linear Algebra, Multivariable Calc.
- **Relevant Minor Coursework:** Advanced Programming, Data Structures, Discrete Mathematics

WORK & LEADERSHIP EXPERIENCE

Sensoneo Slovakia **Bratislava, Slovakia**
Mechanical Engineering Intern 05/2023 – Present

- Coordinated hardware design, manufacture, and testing, expediting sales for new sensor prototypes
  - **Culinary Waste Oil Sensor Mounting Apparatus**
    - Designed holder that enables one-handed operation when replacing sensors in foodservice oil containers, resulting in closure of a deal to a vendor concerned about accessibility issues
  - **Optimization of Sensor Housing Shape for Radar Module**
    - Remodeled the lens shape for the developing radar sensor, integrated it into sensor housing, and improved the coherence of incoming data by 60%
  - **Devised, Modeled, and Fabricated Automized Testing Jig**
    - Created a 2-axis CNC robot capable of replicating real-world conditions in an effort to combat accelerometer calibration issues

Columbia University Robotics Club **NYC, New York**
ROV Structural Engineer 09/2023 – Present

- Spearheaded the development of the main robotic manipulator that would be used in over 75% of the tasks in annual MATE ROV competition
- Evaluated the design for the autonomous float robot, proposed and implemented a clever solution to vary the buoyancy of the float without extensive dependence on epoxy resins
- Leveraged CAD, CAM, and a machine shop to manufacture custom parts for the ROV, decreasing expenses and delays associated with outsourcing to external vendors

Lockheed Martin **Mt. Laurel, NJ**
Minorities in Engineering Program 01/2020 – 04/2020

- Engineered and programmed a robot capable of autonomously traversing an obstacle course
- Implemented iterative design principles to engineer supports, mounts, and brackets to secure orientation sensors, enabling acquisition of crucial data
- Adopted a leadership position within the group, ensuring even task division, ultimately leading to first place in competition against peers.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in English, Slovak, Spanish; Learning Mandarin Chinese
Technical Skills: Java, C, Python, Arduino, CNC Machining, Lathe, Milling Machine, CAD, CAM
Certifications & Training: Completed Superuser Training for Mechanical Engineering Laboratory
Activities: Columbia Robotics Club, Columbia Aeronautics Club, Columbia Cycling Club (Treasurer),
Interests: Brazilian music, Designing and Flying RC planes, Classical & Jazz Piano