

Noah Silverstein

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EDUCATION

Columbia University, The Fu Foundation School of Engineering and Applied Science

Expected May 2022

B.S. in Computer Engineering (CS/EE Joint Program), Minor in Mechanical Engineering | Dean's List (x2)

Relevant Coursework: Advanced Programming (C/C++)*, Data Structures in Java, Intro Java, Multivariable Calculus, Linear Algebra, Discrete Mathematics*, Mechanics* (*Fall 2019)

Activities: FIRST Robotics, Formula SAE, Robotics Club, Barnard Columbia Choir, Barnard Theater, Columbia Gymnastics **GPA 3.9**

Stevenson School, Pebble Beach, California

September 2014 - May 2018

John Lyon Reed Award Recipient (Valedictorian)

Cumulative GPA 4.18

TECHNICAL PROFICIENCIES

Highly Proficient:

Java, Bash, IT Support, macOS & Windows, CAD (Fusion360), Metal Working (CNC/manual)

Knowledgeable:

Python, Arduino, C, C++, Electronics/Circuit Design, Website Development, Networking & Security

WORK EXPERIENCE

Engineering Dean's Office Columbia University

October 2018 - Present

Computer Support and Information Services Technician

- Manage and maintain computer lab software, hardware, and procedures.
- Developed PowerShell scripts to automate base installations and configurations for new departmental devices; dramatically reduced setup time.

Sensing, Monitoring, and Robotics Technology (SMaRT) Laboratory

September 2019 - Present

Research Assistant

- Design and build a robotic model vehicle for the testing of a computer vision and machine learning based commercial truck weight measurement system under Professor Maria Feng.

ShinSheva, Tel Aviv Israel

June 2019 - August 2019

Engineering Intern

- Conceptualized, designed, and implemented a new 3D-printing and electronics laboratory, an interactive exhibition space, and a welcoming reception area for Tel Aviv's premier maker-space.
- Significant utilization of CAD (Fusion 360) and CNC manufacturing.
- Shadowed electronics engineer in the design, fabrication, manufacturing, and programming of small, commercial electronic-devices.

PERTINENT EXPERIENCE

Columbia University FIRST Robotics

September 2018 - Present

Executive Board President, Team Mentor

- Active mentor of 2Train Robotics (Team 395), a nonprofit, community-based FIRST Robotics Team working out of Columbia University's Undergraduate Mechanical Engineering Lab
- Instructs students in prototyping, computer-aided design, metal machining (CNC and manual), Java programming, electronics/pneumatics, strategy, and business.
- Administrate official Columbia University affiliation through the Columbia University FIRST club; increasing organization of mentors and team activities with new management systems.

Columbia University Robotics Club (CURC)

September 2019 - Present

Head of Mechanical Engineering

- Lead mechanical subteams in the design and fabrication of an underwater remotely operated vehicle for the MATE ROV competition.
- Utilize 3D modeling in Solidworks and Fusion 360, CNC metal machining, laser cutting, and 3D printing.

Columbia University Formula SAE

October 2019 - Present

Drivetrain System Lead

- Lead engineer for the drivetrain subteam, overseeing design and fabrication of sprockets, chain guides, scatter shields, hubcaps, etc.