

Francis Gold Sy

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EDUCATION

City University of New York, City College

New York, NY

Expected: Bachelor of Engineering

June 2022

Major: Mechanical Engineering; Minor: Computer Science

GPA: 3.94

S Jay Levy Fellow: a year-long professional development experience culminating in a summer internship

Relevant Coursework: Engineering Design, Computer-Aided Drafting, Electrical Circuits, Statics

Forest Hills High School

New York, NY

High School Diploma

June 2018

Advanced Regents Diploma with Honors. GPA: 100.96, Class Rank: 14/1053 (Top 2%)

Activities/Extracurriculars: Science Olympiad, FIRST Robotics team, Math Team, Key Club

EXPERIENCE

Zahn Innovation Center, CCNY

Feb 2019 – Present

Engineering Apprentice

- Using SolidWorks, Fusion 360, 3D printers, and laser cutter for various projects and design applications
- Executed design of various client-requested products through small team collaboration
- Experienced in the use and maintenance of FDM and SLA 3D printers
- Designed and 3D printed support components for an aerobic resistance training apparatus

DogSpot Inc, NYC

June 2019 – Aug 2019

Engineering Intern

- Supported circuit board production through wire prep, soldering, and board assembly
- Managed circuit board materials; documented assembly and troubleshooting processes
- Helped streamline process in building and shipping commercial products
- Maintained strong communication with assembly team to ensure deadline completion and smooth workflow

Tech Achievement Institute, NYC

May 2018 – June 2019

Lead Arduino/Robotics Instructor

- Organized and introduced a robotics curriculum with Arduino platform
- Taught basics of programming and electrical engineering to children as young as 8 years old
- Aided students in creating LED, sensor, and motorized car projects

FIRST Robotics Team, NYC

Sept 2016 – June 2018

Captain

- Formed FIRST robotics team 12178 Artificial Intelligence
- Crucial role in designing, building, and driving of the robot to compete in FIRST Tech Challenge (NYC Championships)
- Spearheaded design of horizontal mechanism that gained regional recognition in November 2017 competition

PROJECTS

Customized PCB Keychains

August 2019

- Used Autodesk Fusion 360 to create a two-part keychain casing using a snap-fit mechanism; included company logo on front and font-customized names on the back
- Soldered LEDs, wires, battery mount, and button onto circuit boards; installed boards into 3D printed casing

PROFESSIONAL SKILLS

Software: SolidWorks, Autodesk Fusion 360, Java, Arduino, Microsoft Office

Manufacturing: 3D Printer, Laser Cutter, Prototyping

Languages: English (Fluent), Tagalog (Native)

ACCOMPLISHMENTS

- March 2019: Mark Zemansky Introductory Physics Prize Winner
- January 2018: FIRST Tech Challenge Inspire Award recipient