

# Francis Gold Sy

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## EDUCATION

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**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

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**WearWorks Inc, NYC**

*Jan 2020 – Present*

**Mechanical Engineering Intern**

- Lead development and production of the WayBand for showcasing events and product launch
- Soldered, assembled, and applied finishing techniques for WayBand production
- Operated and maintained the Form 2 to lead product iterations and development

**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

## PROJECTS

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**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

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

Manufacturing: 3D Printer, Laser Cutter, Prototyping

Languages: English (Fluent), Tagalog (Native)

## ACCOMPLISHMENTS

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