

# Tia Singh

## Aspiring Electronics & Technology Teacher

FIRST ROBOTICS COMPETITION MENTOR, ALUMNI AND, ENTHUSIAST.

Queens, New York

(908) 249-7130

tsingh@svaprogram.org

### SKILLS

Soldering, Desoldering, Circuit Troubleshooting, Component Identification, Evaluating Schematics, Using Test Equipment (DMM), Power and hand tool usage, Eagle PCB, Event & project organization, Team Building, Computer Skills: Microsoft Office, iMovie, Internet.

### EXPERIENCE

#### **Queens Technical High School, Queens, NY** - *Electronics SVA Teacher*

January 2019 - Present

- Co-Taught Pre-Engineering Electronics & Technology.
- Mentored FIRST Robotics Competition Team.

#### **Teknikio, Pratt University BFDA Building, NY** - *Electronics Design Intern*

September 2018 - January 2019

- Designed and tested PCB circuit boards on consumer products to meet company standards
- Designed, tested and developed new products as well as user experience for new products.

#### **Clarapath, New York Genome Center, NY, NY** - *Mechatronics Technician at Clarapath*

JUNE 2018 - September 2018

- Breadboarded circuits, then made them in EAGLE PCB for fabrication.

#### **Brooklyn Tech High School, Brooklyn, NY** - *Electronics SVA Teacher*

JANUARY 2018 - JUNE 2018

- Co-taught CIM (Computer Integrated Manufacturing) with a PLTW (project lead the way) curriculum.
- Created lesson plans, videos and more educational content in order to teach the class.

#### **littleBits, Starrett Lehigh Building, NY** *Product Design/ Engineer Intern*

JANUARY 2017 - JANUARY 2018

- Use softwares such as LTSpice, and Eagle to create and simulate circuit board designs.
- Tested components in various situations and record findings in the database.

- Soldering, Desoldering, Cutting up tracks to expose fiberglass, adding tiny wires to perform re-work tasks on prototype boards. All of these tasks were performed under a microscope.
- Created templates and sample lesson plans for educators

**Transit Tech High School, Brooklyn, NY** - *Electronics SVA Teacher*

SEPTEMBER 2016 - JANUARY 2017

- Taught eleventh grade Public High School DC Electronics for two consecutive sessions a day.
- Created tests, projects, and lesson plans based on the diversity, skill-level, and special needs of the individual students in the class.

**New York Hall of Science, Corona, NY** *Information Technology Intern*

MARCH 2015 - June 2016

- Maintained, Troubleshoot, Documented and Supported IT and electromechanical components of all Exhibits.
- Maintained *Connected Worlds*, a multi-million dollar exhibit.

**EDUCATION**

**New York City College of Technology, Brooklyn, NY -**

*Education Bachelor's Degree*

JANUARY 2017 - PRESENT

**Queens Vocational Technical High School, LIC, NY -**

*CTE Endorsed High School Diploma*

SEPTEMBER 2012 - JUNE 2016

**CERTIFICATIONS**

ETA (Electronics Technician Association) DC Electronics

ETA AC Electronics Theory

ETA Digital Electronics

OSHA 30-hour General Industry Safety and Health

C-Tech Telecommunications:

    Copper Based Network Cabling Certified

    Energy Management Systems

    Fiber Optics

**REFERENCES**

Samuel Litt : [salitt@nysci.org](mailto:salitt@nysci.org)

Erin Mulcahy : [Erin@littlebits.cc](mailto:Erin@littlebits.cc)