

LUJIE(SUE) ZHAO

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EDUCATION

New York University, Tandon School of Engineering

B.S. in Computer Science, Minors in Mathematics and Finance

GPA: 3.77/4.00

Brooklyn, NY, Sep. 2018 – *Present*

Expected graduation in **Dec 2021**

EXPERIENCES

Google Inc., Google Cloud Core Infrastructure

Sunnyvale, CA (Virtual)

STEP (Student Training in Engineering Program) Intern, CDPush Team

June. 2020 – Sep. 2020

- ♦ **Implementation of Internal Pages:** Recreate pages of CDPush for the current system for directory, one-push, and all pushes.
- ♦ **Visualization of Dynamic Configuration Pushes:** Build visual elements for the internal web UI. Show the timeline of all pushes and the relationship between the current and previous pushes; help users understand the process of the push and estimate the completion time.
- ♦ Front-end development using **TypeScript** with **Angular** framework, Sass and Protocol Buffers.

New York University, Tandon School of Engineering

Brooklyn, NY

Teaching Assistant, Research & Development Committee, General Engineering 1003 Course

Aug. 2019 – *Present*

- ♦ Redesign the course and build **C++** library for new VEX semester-long design project Mars Rover Robot. Mentor Rapid Assembly & Design projects while providing technical assistance. Teach first year students basic engineering concepts through various laboratory experiments.

New York University, AI4CE Lab

Brooklyn, NY

Research Intern, Large Scale Mobile Robot 3D Printing with Prof. Chen Feng

June 2019 – Aug. 2019

- ♦ **Revit Modeling and Gazebo Simulation:** Modified two TurtleBots and modeled them accordingly in Revit. Built Gazebo simulated environment and collected training data (~7500 images) for future machine learning process.
- ♦ **Image Processing using OpenCV:** Developed **Python** algorithms for image detection and path planning. Enabled single mobile robot to print preset graphs in 2D.
- ♦ **ROS (Robot Operating System) Implementation:** Implemented ROS to the robots. Calibrated them to run successfully and printed a floorplan on a wooden board (3m x 6m).

IFT Robotics

Beijing, China

Teacher & Coach

June 2018 – Aug. 2018

- ♦ IFT Robotics is a robotics education institution for primary and secondary school students based on VEX U robotics team IFT.
- ♦ Taught middle school students robotics courses and held practice competitions. Coached in the 2018 World Robot Conference. The coached team won **1st** place in VEX middle school division.

HONORS & AWARDS

VEX U World Championship

Louisville, KY

- ♦ **2019 VEX U World Champion:** Team ranked **first** out of 77 teams from 13 different countries and regions.
- ♦ **2018 VEX U World Finalists:** Team ranked **second** out of 83 teams from 13 different countries and regions.
- ♦ **2017 VEX U World Finalists:** Team ranked **second** out of 62 teams from 13 different countries and regions.

ACTIVITIES

NYU Self Drive, Perception Sub-Team Member

Brooklyn, NY, Sep. 2019 – *Present*

- ♦ Use computer vision (PyTorch) to develop algorithms for an autonomous self-driving mini car. Attend weekly meetings and lectures.

Poly Programming Team, Member

Brooklyn, NY, Sep. 2019 – *Present*

- ♦ Contribute in weekly practice for the annual ACM-ICPC regional contest and engage in team activities.

VEX U Robotics Team IFT, Co-captain & Founder

Various Locations, Dec. 2015 – Apr. 2019

- ♦ Co-founded Team IFT with friends across different high schools and competed in VEX university division. Voted the co-captain of the team and recruited students from different colleges (RPI, Penn State, Trinity, etc).
- ♦ Worked as the main programmer in the team. Led the team in regional, national competitions and World Championship.
- ♦ Helped founded robotics education institution IFT Robotics located in Beijing with a branch in Xi'an, China.

SKILLS

- ♦ Programming Languages: C++, Python, Java, TypeScript, HTML, CSS, JavaScript
- ♦ Softwares & Tools: Git, Arduino IDE, Microsoft Office, Tableau, Final Cut Pro, Adobe Photoshop, Adobe Illustrator