Yutian Qin

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EDUCATION

Tandon School of Engineering, New York University (Brooklyn, NYC)   **Sep. 2020 - Present**

B.S. in Electrical and Computer Engineering

- GPA: 3.6
- Core courses: Feedback Control System, Fundamental of Electronics, Ordinary Differential Equations, Data Structures, Communication Networks, Introduction to Computer Music

School of Rail Transportation, Soochow University (Suzhou, CHN)   **Sep. 2018 - 2020**

B.E. in Electrical Engineering and Intelligent Control

- GPA: 3.7 (Ranking Top 7.7%)
- Core courses: Advanced Mathematics; Linear Algebra; Computer Information Technology: Computational Thinking; Programming and Application: C Language; General Physics; Circuit Analysis; Digital Electronics & Logic Design; Electrical Machine Principles & Drive

University of California, Berkeley (Berkeley, CA)   **Jul. 2019 - Aug. 2019**

- Summer Session

RESEARCHES & INTERNSHIPS

Group Leader, Dean's Undergraduate Research Funding

Apr. 2021 - Present

- Lead the project of Electrification of a traditional Chinese musical instrument Liuqin
- Use Python to analyze the timbre of Liuqin and set up Mathematical models to transfer the timber from Liuqin to other stringed instruments
- Design innovative circuits as the hardware part of the new instrument to make transfer

Research Assistant, Researches in Music X Lab (http://www.musicxlab.com/#/) in NYU Shanghai

Jan. 2021 - Present

- Bio-music computing with Slime Molds: Music classification with Slime Molds. Analyze the images of slime molds by algorithm and cultivate the conditional response so as to make music classification
- Performance Transfer of Player Piano: Design Python algorithms to narrow the difference of different player pianos which are attribute to different timbres and sound field environment

Researcher, Research on High Efficiency and High Performance of Rail Transit Auxiliary Converter Based on Wide Band-Gap Devices   **Sep.2019 - Present**

- Welded current converter and voltage converter to build the platform, which is aimed at changing high voltage into serviceable voltage so as to drive the load. Analyzed circuit diagrams according to the knowledge of circuit analysis and understood the principles of relevant hardware like all kinds of chips, resistances and capacitances

Designer, Building an Online Examination System   **May. 2019 - Jun. 2019**

- Utilized Language C and C++ to build an online examination system which selects questions randomly from the file of the question bank according to the current time, shows the result of each answer of the questions and detect errors from the question bank and calculated the score automatically. At the end of the test, the overall score and the rank of the participant will be shown on the screen.

Intern, Project Department of Intelligent Distribution Center in Bosideng International Holdings Limited   **Aug. 2019 - Sep. 2019**

- Set up intelligent logistics conveyor by applying Programmable Logic Controller
- Establish and check the correctness of the new conveyors by control the input signals of each single part of the conveyor and observe whether it runs and stops in the correct direction and time.
- Supervised the human-machine mixture flow system based on Geek robot, which is similar to the Kiva system in Amazon.

Intern, Metal Processing and Metal Working   **Nov. 2019- Dec. 2019**

- Laser cutting, 3D printing, welded steel material with a soldering tweezer, polish the bolts with lathes and milling machines and cast mechanical elements with melted iron.

HONORS

- The Dean's List of Tandon School of Engineering, NYU (2020-2021 Academic Year)
- Dean's Undergraduate Research Funding (2021)
- Successful Participant in Mathematical Contest in Modeling (2020)
- First-class Scholarship for Excellence in Soochow University (2019)

- The Third Prize for Band C in 2019 National Competition for College Student (2019)

EXTRACURRICULAR ACTIVITIES

Volunteer in 2020 New Interfaces for Musical Expression	Jun. 2021
Minister of the project department of the Students' Association For Science and Technology	Sep. 2018 – Jun. 2020
Volunteer to teach a child with porcelain doll disease Mathematics and English	Aug. 2019- Aug. 2020
Assembled a radio according to the circuit diagram and designed a circuit board	Feb. 2019-Mar. 2019

SKILLS & HOBBIES

- Skills: Language C; Python; C++; MATLAB；AutoCAD; SolidWorks; SIGMA NEST; Up Studio; Pro Engineer; Excel; PowerPoint; Word; SMATIC Manager.
- Language: Fluent in English and Chinese
- Hobbies: Piano; music; painting.