**Shen Huang**

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**Skills**

**Programming:** Type Script, Python, C, C#, Java **Language:** English (Expert), Chinese (Native)

**Office Tools:** Word, Excel, Power Point **Design Tools:** Photoshop, 3DS Max

**Willing and able to quickly learn any new skills**

**Education & Work Experience**

2020.10 - 2021.4 **Byte Dance** Game Developer Engineer

2018.5 - 2020.5 **National Science Foundation**  Teaching Assistance (Data Science)

2017.9 - 2020.5 **California State University, Northridge** MASc in Computer Science

2015.7 – 2017.3 **Operation Technology Inc.**  Software Test Engineer

2011.9 - 2015.5 **Queens University** MEng in Electrical Engineering

**Project Experience**

**Queens ECE Robot Competition (1st Place)**

* Created a slam-dunk robot driven by **Arduino**.
* Hardware troubleshooting for sensors and actuators such as pressure sensor, infra-red & servomotor.
* Software troubleshooting for algorithms such as PID control & pulse-width modulation.

**Microprocessor Applications**

* Worked on numerous applications such as traffic-light control, digital control for photovoltaic systems & several robotic applications.
* Hardware building and troubleshooting for accelerometers, metal detectors & breadboard circuitries.
* Microprocessor trouble shooting involving FPGA, DSP, and **Arduino**.
* Software research and troubleshooting for algorithms such as Solar Voltaic MPPT, Matrix Calculation with Gauss-Seidel/PLU & Signal Processing with Fourier Transform etc.

**Other Experience**

**HCI Research**

* Assisted research process such as developing prototype, and training Machine Learning Models.
* First paper published on 13th IEEE HSI 2020 held in Tokyo, Japan.
* Several other results from research were waiting to be published.

**Medium Writer**

* Writer for Towards Data Science, The Startup, Hacker Noon and freeCodeCamp.
* Several articles were selected by the curators and displayed at the front page.
* Articles were published on other platform upon requests.

**Awards & Prizes**

Queens ECE Robot Competition (1st Place)

CEMC Math Competition Certificate of Distinction

Presented Research on SCC Space Computing Conference