Fanzhe Lyu

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EDUCATION

Georgia Institute of Technology, Atlanta, GA
Major: Electrical Engineering
GPA: 4.0
Expected Graduate: Jun. 2020

PROJECTS

A AR-Navigation Android App (Currently On-going)
- Trying to develop a navigation android app with AR feature, embedding google Map feature with a AR compass indicating the user the direction.

Adaptable Robotic Gripper
- Entered the BMW Hack-A-Thing Competition finalist
- Built a robotic gripper that can adapt to most of objects, from hard to soft, and harsh to fragile
- Designed the whole electronic and control system of the gripper movement with embedded system

A Voice-controlled Game
- Made a python-based game controlled by voice
- Using the python library to analyze the volume of the microphone input and then change the graphic output to controlled the figure.

Smart Eco-Friendly Green House
- Built a IOT Solar-energy powered greenhouse in high school
- Designed a computer-based automatic control of Electricity, and circulation of air and water
- Promoted technology application on protecting environment in school

Nanjing Foreign Language School Student Council's online platform:
- Developed an online platform for enhancing communication between students and council members, and providing connection for graduates
- Built public umbrella system with providing online track of using umbrellas in school

LEADERSHIP

Nanjing Foreign Language School Student Council   **Sept 2014 – Jun 2015**
Academic Director
- Awarded *"Excellent student leader"*
- Created peer tutoring between different grades in school
- Built student multifunctional student council's official website and media account to connect to students
- Organized lectures of sharing academic experience to new students
- Founded public umbrella systems with designing online tracking platform in school

Nanjing Foreign Language School Innovation Club   **Sept 2014 – Jun 2016**
President
- Lead club members building project involving programming, engineering, and robotics
- Tutored 9 students about programming on embedded computer (Arduino) and simple circuit design

Nanjing Foreign Language School Physics Tutoring   **Sept 2014 – May 2016**
Leader
- Provided after-school lessons to help students with Physics struggles
- Taught a group of 10-20 students about Physics within and beyond the syllabus
- Promoted Physics study environment in school

SKILLS/INTERESTS

- **Skills**: Python, MATLAB, Java, C++, C, Pascal, VB. NET, Arduino, mbed, Digital System Design
- **Software**: Microsoft Office, Solidworks, Adobe Ae, Adobe Pr, KiCAD
- **Language**: English, Mandarin, Spanish(elementary), German(Elementary)
- **Hobbies**: Soccer, Guitar, Percussion, Piano, Bass, Rubik's Cube

VOLUNTEERING WORK

2nd Youth Olympic Games   **Mar 2014 – Aug 2014**
CEP Representative for Tuvalu
- Promoted Chinese culture to athletes, and helped them to learn local culture
- Invited athletes from Tuvalu to engage with local high school
- Helped to promote culture and information (especially environment) of Tuvalu