TRUNG THANH TRUONG

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EDUCATION
Tufts University   ***May 2021***
Bachelor of Science in Computer Engineering. Minor in Computer Science   *GPA 3.89*

RELEVANT COURSEWORK
Multivariable Calculus, Linear Algebra, Differential Equations, Discrete Math, Electrical Systems, Intro to Engineering: Arts of Music, Intro to CS, Data Structure, Web programming, Autonomous Intelligent Robots with ROS

PROJECTS
IOT House – *Individual project @Tufts Polyhack hackathon*   ***October 2017***
- Created a house model that has real-time facial recognition functionalities, and can be controlled over the Internet using an ESP32 board

Robotic Butler – *Individual summer project*   ***July 2017***
- Developed both the software and hardware of a robot that has face and color recognizing ability, a robotic arm, and autonomous path-finding ability using A* algorithm

3D-printed Robotic Blimp – *High school senior project*   ***April 2017***
- Designed the user-interface and the 3D-printed frame of an Arduino-based robotic blimp that has face and color tracking ability, and can be controlled over Bluetooth

Efficient Heating System – *CT State Science Fair, Gilchrist Environmental Fellowship*   ***March 2016***
- Proposed a hardware design that increases the efficiency of a custom-made solar-powered air regulator

Internet-controlled Telepresence Robot – *Individual summer project*   ***June 2015***
- Built Java sketches that controls the robot base and the on-board robotic arm over the Internet

SKILLS
- Programming languages: C++, C, Java, Python
- Software: vim, emacs, Sublime, Processing, Arduino, Eclipse, AutoCAD, MATLAB
- Knowledge in integrated circuits designing, power system, embedded microcontrollers, 3D-printing, Computer Vision, HTML/CSS, JavaScript, Bootstrap, JQuery, Node.js, ROS
- Fluent in Vietnamese, proficient in Spanish, elementary in Chinese

EXPERIENCES
Instructables.com, *Contributor*   ***June 2015 – present***
- Contributed featuring blogs, including Arduino programming and various CS-related projects
- Received more than 90,000 views for robotics tutorials up-to-date

Jay Pritzker Academy in Siem Reap, Cambodia, *Volunteer robotics instructor*   ***July – August 2016***
- Led a group of volunteers from Vietnam to teach students at the Jay Pritzker Academy, an institution founded for gifted scholars in impoverished rural areas of Siem Reap
- Delivered lessons on basic concepts of robotics and engineering based on previous experiences in personal robotics projects

Tan Phong Plastic Joint Stock Company in Hanoi, Vietnam, *Intern*   ***May - July 2016***
- Contributed ideas to enhance the overall efficiency by building a conveyor belt system

OTHER ACTIVITIES
Tufts Club Basketball, Tufts Robotics Club, Tufts Vietnamese Student Club, Computer Science Exchange, MakeHarvard Hackathon, Hack@Brown Hackathon, WMFO Radio Station Co-host