TRUNG THANH TRUONG

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EDUCATION
Tufts University   *May 2021 (expected)*
Bachelor of Science in Computer Engineering. Minor in Computer Science

PROJECTS

IOT House – *Individual project @Tufts Polyhack hackathon*   ***October 2017***
- Created a house model that has real-time facial recognition and video-streaming functionalities, while being 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 of an electronic system that increases the efficiency of a custom-made solar-powered air regulator.

Internet-controlled Telepresence Robot - *Individual summer project*   ***June 2015***
- Created a robot that can be controlled over the internet, and built Java sketches that allow remote video and sound streaming

SKILLS
Programming languages: C++, C, Java, JavaScript, 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, Node.js, Angular.js, React.js, ROS

Fluent in Vietnamese, English, proficient in Spanish, elementary in Chinese

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

EXPERIENCE

Instructables.com, *Contributor*   ***June 2015 – present***
- Contributed featuring blogs, including Arduino programming and various CS-related projects
- Received more than 80,000 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 Prizker 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, *Intern*   ***May - July 2016***
- Contributed ideas to enhance the overall efficiency by building a conveyor belt system

ON-CAMPUS INVOLVEMENT
Tufts Club Basketball, Robotics Club, Tufts Vietnamese Student Club, Computer Science Exchange