Austin Tsao

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Objective

To obtain an internship in electrical engineering for the summer of 2017 in order to gain more knowledge and experience in industry.

Experience

Feng Chia University, Taichung, Taiwan   **June 2016 – Aug 2016**

Student Researcher – Developed a prototype for minimally invasive surgery technology. Combined the technology of Arduino and image processing (OpenCV) to create an integrated system that can locate and track the location of a scalpel inside a body while surgery is in process. Used color tracking and SURF to track location of scalpel in real time. Used Arduino and a variety of sensors, including ultrasonic and light sensors, to test distances and location of objects inside the body.

Kingston Technology, Fountain Valley, CA   **June 2015 – Sept 2015**

MIS Summer Intern – Worked with databases and SQL to update Kingston's MIS servers. Use of C# and Visual Studio to make additions to shipping logs. Helped fully design a web app, back and front-end, that helped Kingston employees all over the world track the location and usage of sample HyperX headsets. Features included a login system, a checkout function, clear and easily understandable UI. Use of Agile methodology to organize and keep track of progress in the web app project, with standup meetings and sprints to achieve goals.

American Sino Culture Media Group, Los Angeles, CA   **Dec 2016 - Present**

College Admissions Counselor – Helped high school students from China apply to colleges in the United States. Gave advice on universities to target, and worked with them to improve their essays and writing skills.

Education

Northwestern University, Evanston, IL   **Sept 2014 – June 2018**

Bachelor's of Science in Electrical Engineering, Minor in History

Relevant Coursework: Communication Networks, Digital Logic Design, Signals and Systems, Solid State Engineering, Electromagnetics and Photonics, Engineering System Design

Skills

Hardware: Microcontrollers, Arduino, circuit design

Software: Image processing, OpenCV, web development, ASP.NET, C++/C/C#, Python, JavaScript, web development, HTML/CSS, MATLAB, Racket

Activities and Awards

Taiwan Tech Trek, Taipei, Taiwan

Conducted research in Feng Chia University as a participant of Taiwan Tech Trek, sponsored by the Taiwan Ministry of Foreign Affairs and Academia Sinica. Presented the results of our research at a program-ending banquet. Awarded 2nd place for Best Presentation in the Engineering II category.

IEEE, Northwestern chapter