

Hello, my name is Michelle Du, and I am currently a first year electrical engineering student at UCLA. I am from San Jose, California, and I attended Evergreen Valley High School.

Like many of those who grew up in Silicon Valley, I revel in modern technology, and I consider myself lucky to experience firsthand the rapid development of electronics. I sincerely believe that computers are both a powerful product and powerful tool for the human intellect, and the field at the forefront of this movement is none other than electrical engineering. By coming to UCLA as an EE major, I aim to foster my love for learning while gaining the knowledge that will help me understand and eventually contribute to the technology that surrounds us.

I have some hardware and software experience prior coming to UCLA. Some software projects I have previously worked on include an interactive school map written in Processing.js; a FFT pitch-detection program written in Matlab; a timbre transformation program written in Python and PureData that incorporates pitch detection, onset-offset detection, additive synthesis, and ADSR envelope functions; and a Scrabble-inspired game written in Java with a GUI developed using the Android SDK. My hardware experience includes soldering an AM radio and developing a FM stereo modulator using the STM32F3 Discovery board and AD9851 DDS module. Currently, I am most comfortable programming in Java, Javascript, C, Python, and Matlab.

Because I have more experience in software than I do in hardware, I look forward to gaining more hardware experience through my E96C: IoT course and the OPS program offered by UCLA's branch of IEEE. I also anticipate learning more about the field of electrical engineering in general and exploring the various career paths that it offers.