JUNHENG CHEN
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EDUCATION

- **M.S., Computer Science, June 2016**

    University of California, Santa Cruz

- **B.S., Computer Science, July 2013**

    Beijing University of Posts and Telecommunications

- **Summer session, Aug. 2013**

    University of California, Berkeley

EXPERIENCE

Tutoring in the Mechatronics course

- Helped students out of the questions in lab, covering programming for embedded systems, setting up electrical circuits and building mechanical structures
- Graded lab reports and left constructive comments for students

Developed an automatic robot-controlling program in the Mechatronics course

- Teamed up with two peers to work on electrical components and mechanical parts
- Developed the driver code for a gyroscope using I2C as well as a PI controller
- Programmed the robot to complete the tasks and navigations automatically and robustly
- Ranked 2nd out of 20 teams in a competition

Designed and implemented a 3D math-equation plotter

- Able to draw the 3D-plot of an arbitrary equation given by users onto a webpage, and allow users to manipulate the plot, based on WebGL(Javascript version)
- Designed as a B-S structure, which was implemented with Javascript, Python and Matlab through Ajax

Programmed and drove a manual robot in ABU Robocon Contest

- Collaborated with 14 engineering students from different majors, and led a group in establishing controlling programs for 3 robots
- Wrote driver codes for various hardware components via different interfaces, such as DC motors, laser sensors, gyroscopes and a PS2 Controller through UART, SPI and I2C
- Assembled one of the three robots which could carry a human driver
- Configured the robot to navigate semi-autonomously while still allowing for manual control by the driver

SKILLS

- Programming Languages
  - Most comfortable with C and Python
  - Also can program in Javascript, C++, Swift and Haskell
- Applications: Xcode, Keil µVision, Mplab X, Matlab, Solidworks