

# Jaap de Dood

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## Education

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**Bachelor of Science, Electrical Engineering**, California State University, Long Beach, CA August 2015 - Present

Anticipated graduation: Spring 2019

Current GPA 3.9/4.0

**Relevant Courses:** Analog Circuits I/II, Microelectronics - CMOS VLSI Design, Microprocessors, Control Systems, Communication Systems, Signals & Systems, Digital System Design, MATLAB.

## Project Experience

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### Projects

- IoT waste data collector (UCSB Hackathon)
  - Won 1<sup>st</sup> prize “Best IoT Hack”.
  - Worked on data parsing software and hardware interface for Qualcomm DragonBoard™ (Python/Bash/C++)
- Solar kiosk (Engineers for a Sustainable World)
  - Received \$2500 grant from IBM Students for a Smarter Planet.
  - Won 1<sup>st</sup> place in Green Generation Mixer Project Showcase.
- Smart Greenhouse (Engineers for a Sustainable World)
  - Interfaced sensor and output hardware with ESP microcontroller and set up Wi-Fi data logging. (C++)
- Mechanical keyboard team project
  - Programmed keyboard firmware for microcontroller. (C++)
  - Use finished product daily.
- Maze-solving robot (AVR Assembly)

### Student Organizations

- Institute of Electrical and Electronics Engineers (IEEE) – Project Lead and Webmaster
  - Leading “sophEE” project teaching sophomore Electrical Engineering students EE skills through projects.
  - sophEE projects: Schematic and PCB layout in EAGLE, SMD/reflow soldering, programming a Wi-Fi robot using Arduino C++.
  - Designed, released and maintained website.
- Engineers for a Sustainable World (ESW) – Projects and Webmaster
  - Partake a leading role in projects and currently developing website.

## Work Experience

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### California State University, Long Beach

*Supplemental Instruction Leader*

**Long Beach, CA**

August 2017 - Present

- Plan and hold classes in calculus.
- Improved student grades by an average of 5% in class of 21 students compared to 135 course students.

### Penguin Air Conditioning and Solar Heating

*STEM Co-op*

**Almancil, Portugal**

May 2013 - June 2013

- Created newspaper advertisements in Adobe Photoshop which were published in newspapers.
- Learned from engineers and technicians while installing solar and heat pump systems.