

# Jaap de Dood

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## Education

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**Bachelor of Science, Electric 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, Microprocessors, Control Systems, Communication Systems, Signals & Systems, Digital System Design, MATLAB.

## Project Experience

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### Projects

- IoT waste data collector “Trash sCan” (UCSB Hackathon)
  - Won 1<sup>st</sup> prize “Best IoT Hack”.
  - Worked on data parsing software and hardware interface. (Python/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.
- Mechanical keyboard team project
  - Programmed keyboard firmware for microcontroller. (Embedded C)
  - Use finished product daily.
- Smart Greenhouse (Engineers for a Sustainable World)
  - Interfaced sensor and output hardware with ESP microcontroller and set up Wi-Fi data logging.
- 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: PCB design & SMD/reflow soldering, power supply design and line-following robot.
  - 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

Long Beach, CA

#### *Supplemental Instruction Leader*

May 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

Almancil, Portugal

#### *STEM Co-op*

May 2013 - June

2013

- Worked directly with owner in administration, customer service and technical support.
- Created newspaper advertisements in Photoshop which were published in newspapers.
- Learned from engineers and technicians while installing solar and heat pump systems.