

Jaap de Dood

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Education

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

Projects

- IoT waste data collector “Trash sCan”
 - Won 1st prize “Best IoT Hack” at UCSB Hackathon.
 - Worked on data parsing software and hardware interface for Qualcomm DragonBoard™ (Python/Bash/C++).
- Micromouse autonomous robot competition
 - Designed vehicle power system utilizing switch-mode power supplies.
 - Completed PCB layout to meet power demands and minimize EMI.
 - Wrote project technical report.
- Solar kiosk
 - Received \$2500 grant from IBM Students for a Smarter Planet.
 - Won 1st place in Green Generation Mixer Project Showcase.
- Aquaponics
 - Worked in a team for Engineers for a Sustainable World to interface sensor and output peripherals with Raspberry Pi and set up Wi-Fi data logging.

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++.
- Engineers for a Sustainable World (ESW) – Projects and Webmaster
 - Partake a leading role in projects and currently developing website.

Work Experience

California State University, Long Beach

Long Beach, CA

Supplemental Instruction Leader

August 2017 - Present

- Plan and hold classes in calculus to provide a collaborative peer-learning experience to improve understanding of subject content, foster critical thinking, and strengthen study skills.
- 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

- Learned from engineers and technicians while installing solar and heat pump systems.