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, CMOS VLSI Design, Mixed-Signal IC Design, Microprocessors I/II, Control Systems, Communication Systems, Digital Signal Processing, Digital System Design, MATLAB.

Project Experience

Projects

- Micromouse autonomous robot competition.
 - Designed schematic and PCB layout for three generations.
 - Wrote flood fill pathfinding algorithm using stack instructions (C++).
 - o Developed robot software for ARM Cortex-M4 MCU.
- Development board design with Professor Gary Hill.
 - Debugged hardware using oscilloscope and other lab equipment.
 - o Made design improvements in reliability and PMIC circuitry based on debugging results.
 - Developed custom bootloader for ATMega32u4 (C).
- IoT waste data collector "Trash sCan".
 - Won 1st prize "Best IoT Hack" at UCSB Hackathon.
 - Contributed to data parsing software (Python).
 - O Wrote firmware to interface Qualcomm DragonBoard™ with hardware (C).
- Solar kiosk mobile energy project.
 - O Built kiosk + solar system with two other club members.
 - o Received \$2500 grant from IBM Students for a Smarter Planet.
 - Won 1st place in CSULB Green Generation Mixer Project Showcase.

Student Organizations

- Institute of Electrical and Electronics Engineers (IEEE) CSULB Student Branch President.
 - Oversee operations for club with ~200 active members.
 - Meet monthly with industry professionals from IEEE Coastal Los Angeles section.
 - O Doubled number of semesterly workshops and won IEEE award for "Outstanding Small Student Branch".
- Engineers for a Sustainable World (ESW) Solar kiosk project and Webmaster.

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.