

MARK HOANG

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EDUCATION

California Polytechnic State University, San Luis Obispo

Bachelor of Science in Electrical Engineering

GPA: 3.6

December 20xx

RELEVANT COURSEWORK

Electronic Devices, Linear Control Systems, Random Signals and Noise, Digital Integrated Electronics, Electronic Circuits, Integrated Electronic Circuits, Signal Transmission, Discrete Time Systems, Electromagnetic Fields I & II, Digital System Design, High-Frequency Amplifier Design, Digital Communication Systems, Digital Signal Processing, Polymer Electronics, and Electronic Manufacturing

SKILLS

Software: Electronic Workbench, PSPICE (OrCAD), Xilinx, Micro-Cap, Matlab, DADISP, ADS, C

Hardware: HP 8410B Network Analyzer, Anritsu MS 4622B, Spectrum Analyzer

TECHNICAL PROJECTS

Senior Project

1/xx – 6/xx

- Built a transmitter and receiver for an audio signal
- Utilized direct sequence spread spectrum system and modulated data signal using BPSK (Binary Phase Shift Keying)
- Demodulated signal using 2 parallel integrators to get more reliable data at the receiver

Narrowband Amplifier Project

1/xx – 3/xx

- Using Agilent's ADS software, designed narrowband amplifier by meeting specified requirements: frequency range of 1200-1500MHz, source and load impedance of 50 Ohms, input and output VSWR less than 2.0 and less than 1dB ripple

Digilock Project

9/xx – 12/xx

- Designed an FSM using VHDL and StateCAD software
- Implemented functions by programming and testing a PAL using VHDL, NOVA, StateCAD, and hardware tests

Waveform Generator Project

9/xx – 12/xx

- Designed a 4-function generator by programming PLD (CE22V10H), connected to DAV0830LCN (8-Bit DAC)

Seat Belt Interlock Project

9/xx – 12/xx

- Designed a synchronous FSM and downloaded the design into FPGA on Digilab DIOI Board and tested the design using switches and LEDs

WORK EXPERIENCE

Electrical Engineering Laboratory Assistant

1/xx – 5/xx

California Polytechnic State University – San Luis Obispo

- Helped students conduct electrical engineering experiments and graded homework assignments

Mathematics Computer Laboratory Assistant

1/xx – 8/xx

Santa Rosa Junior College, Santa Rosa, CA

- Installed and updated operating system and software programs
- Helped students learn software programs such as: Maple, Differential System, Data Desk, Microsoft Office, Omni Page, Vista Scan, Adobe Photoshop, and Adobe Illustrator

LEADERSHIP & INVOLVEMENT

Treasurer, IEEE Cal Poly Student Branch

20xx – 20xx

Member, Power Engineering Society

20xx – 20xx