Dante Vasudevan

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EXPERIENCE

08/2020 - 05/2024

Student, Electrical Engineering – University of Illinois

- NIR VCSEL Research supervised by Prof. Kent Choquette
 - Near-Field and Far-Field Characterization on Coupled Photonic Crystal VCSELs
 - Built a Model to analyze the fundamental gaussian mode of Coupled Index-Guided VCSELS
- Worked in a Class 1000 Clean Room
 - Built BJTs, Diodes, and FETs on silicon wafers using fabrication techniques (Oxidation, Photolithography, Etching, Ion Diffusion, and Metallization)
- Control Systems Research under Yogi Patel
 - o Modeled and Built Inverted Pendulum
 - Presented Poster at PURE Symposium

06/2023 - 08/2023

Intern/Engineer, ASIC Design - Auradine

- Co-Simulation and Co-Design with Chip-Package-Board Systems
- Performed PVT Timing Analysis for various technology nodes
- Performed PowerDC Simulations for the ASIC
- Explored thermoelectric power reduction ideas for the system

05/2021 - 08/2021

Intern/Engineer, Robotics – Ford Motor Company

- Developed CommunicAV, a low-cost testing platform for autonomous vehicle interaction with Game Theory Algorithms
- Built the Mini Vehicles
- Built a ROS2 Framework to support communication, mapping and localization, and negotiation

EDUCATION

Graduated 05/2024

B.S. in Electrical Engineering, University of Illinois - Urbana, IL

- Recipient of Samsung Technology Track Scholarship
- Relevant coursework includes:
 - Semiconductor Electronics, Semiconductor Device Fabrication, Photonics, Optics, Plasmas, E&M Fields and Waves 1 and 2, Digital Systems (FPGA Course), Analog and Digital Signal Processing, and Microelectronics (Small-signal analysis)

Graduated 06/2020

High School Degree, Willow Glen High School - San Jose, CA

- Completed Calculus through Multivariate Calculus
- Completed Chemistry and Physics Mechanics
- FIRST Robotics

SKILLS

Software: Python, MATLAB, Linux, SystemVerilog Basics, ROS2 Foxy, Image Processing, Git

Electronics: HSPICE, LTSPICE, TCAD, KiCad (PCB Design), KLayout (PIC Design), PowerDC Basics

Other: Spectrometer, Optical Spectrum Analyzer, Oscilloscope, Fusion360 (3D Modeling)

Languages: English: Native

Spanish: Professional fluency

