

Dylan A. Vanmali

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EDUCATION

Carnegie Mellon University

Grad: Dec 2020

Master of Science, Electrical and Computer Engineering

Master of Science, Technology Ventures

GPA: 3.48/4.00

Software: Computer Graphics, Cyber Physical Systems, Embedded Software Engineering, How to Write Fast Code

Business: Grand Challenge Innovation, Policies of the Internet

Teaching Assistant: Designing for IoT, IoT Ecosystems, IoT in Depth

University of California, Santa Barbara

Aug 2014 – June 2018

Bachelor of Science, Computer Engineering

Technology Management Certificate

GPA: 3.26/4.00, Four-time Engineering Dean's Honors

Software: Computer Vision, Machine Learning, Operating Systems, Computer Networks, Databases

Hardware: Sensors & Peripheral Interfaces, Advanced Computer Architecture, High-Performance Digital Circuits

Business: Business Strategy, Market Research, Entrepreneurship

SKILLS

Computer Literacy: C, C++, Python, HTML, Verilog, SQL, LPCXpresso, Git

PCB Design Software: Xpedition PCB, Cadence

PROFESSIONAL EXPERIENCE

Solution Concept Developer Intern

May 2019 – Aug 2019

Connected Solutions Innovation Group | Volvo Group

- Ran smart-city innovation project from ideation to technology prototype; gathered 70 survey responses, mapped site utilization, ideated possible human interactions, and embedded sensor capabilities into a round one prototype
- Conducted 10 client need-finding interviews to develop personas for Volvo's next generation vehicle customer
- Organized and visualized 5 million vehicle data points with 300 variables into 35 readable variables using MATLAB
- Facilitated project transition from university students to Volvo team, and built ReactJS front-end prototype for interaction

Lead Sensors and Peripherals Engineer

Apr 2017 – July 2018

Hyperloop | UCSB

- PCB designer for the control and communication systems made through Xpedition PCB software
- Won levitation sub-competition on a team of 40 multidisciplinary students
- Test engineer for various sensors and motor systems operating on I2C, UART, and PWM protocols
- Coded positioning and stabilization data in C on a GitHub code base of approximately 55 files

PROJECTS

Products

- FitFeet Smart Shoe

Software

- Scotty3D Graphics Software
- mIoT Home – SB Hacks 2018 Best Buyer-Seller
- Linux Operating System

Hardware

- Arduino 8x8x8 RGB LED Cube
- Superscalar MIPS Pipeline Processor
- 1.4 GHz 64-Bit CLA Adder

LEADERSHIP

Project Ignite

- Project Advisor – organized tasks for 5 high schoolers to develop a music visualizer consisting of a graphics website and holographic pyramid over 10 weeks

Engineers Without Borders

- Events Chairman – responsible for bonding, volunteer, fundraising and educational activities

Asian Pacific Islanders

- Mentor – event planner and university resource for over 200 first-year students
- Coordinator – trained 15 new API Mentors weekly