



Devin Patel

Computer Science and
Engineering, B.S.



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Yorba Linda, Irvine



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About me

I am currently a Full Stack Engineering Intern at Chaparral 300 and a full time student at the University of California, Irvine, graduating in June 2019. I am well versed in various technical aspects in both the computer software and computer hardware industries. Current passions include embedded systems, machine learning, and computer vision.

Skills

OpenCV / Machine Learning



Python



Node-RED



C / C++



SQL / MySQL



System Verilog



HTML / CSS



education

2015-2019 Computer Science and Engineering, B.S.

University of California, Irvine

2011-2015 High School Diploma

Yorba Linda High School

awards

2015-2018 Dean's Honor List

- Attained various quarters under the Henry Samueli School of Engineering by having a GPA of 3.5 or higher

2015 Crimson Level Scholar

- Earned by having a GPA of 3.5 or higher, for completing at least 8 AP or Honors Courses, and for completing at least 100 recorded hours of Community Service

2015 National AP Scholar

- Granted to students who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams

work experience

2017-Now Full Stack Software Engineering Intern Chaparral 300

- Integrate legacy PLC's, IR sensors, IP cameras, and various other devices via proper networking and ethernet I/O modules
- Use OpenCV to track bowling balls' trajectories down a lane and measure speed accurate to 3.33 milliseconds
- Use Node-RED to develop a local networked based PLC (using modubs, HTTP post/get requests, TCP/UDP requests) for a fully interconnected system to control bowling game machines
- Design and solely code a fully functional MySQL database with proper keys, constraints, triggers, and procedures

2016-2017 Community Assistant Vista del Campo Norte

- Created community engaging and career building programs for residents to promote self-growth and raise awareness of various on campus resources
- Facilitated relations between clients and administrative staff to run day-to-day operations
- Responded to spontaneous, emergency situations when on call
- Operate the apartment community's front desk, assisting walk-ins, taking phone calls, and providing property tours

technical experience

Python Facial and Gesture Controlled Drone

- Use OpenCV haar cascades to identify and track facial and pupil movements to additionally steer the drone.
- implement several safety features such as return to takeoff spot

Sys Verilog RISC-V Single Cycle Processor

- Single cycle processor that follows the RISC-V instruction set
- Has several modules such as Datapath, Controller, ALUController, ALU, RegFile, DataMemory, Mux2, Mux4.

C Embedded Alarm Date and Time Clock

- Embedded Software project using C and Atmel ICE programming
- Uses an LCD for output and keypad for time and date change inputs
- Plays alarm songs out loud when an alarm goes off