

Dennis MOORE

PERSONAL DATA

PLACE AND DATE OF BIRTH: Bakersfield, CA | 03 September 1993
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EDUCATION

DECEMBER 2015 Bachelor of Science in ELECTRICAL ENGINEERING, Texas A & M University

MAY 2011 Graduated in the top 10% in a class of 600 students
Kingwood High School

WORK EXPERIENCE

JUNE 2015 - CURRENT	SOE I wrote embedded C code for the TI Piccolo processor to communicate with an Arduino Uno via SPI. These two devices operate at different voltages (3.3 and 5V) so I had to design a level shifter to get them to communicate properly. I also implemented error checking on both processors to throw away packets with incorrect data.
AUGUST 2014 - MAY 2015	AggiE Challenge I volunteered for a project to create an autonomous UAV that explored and mapped an unknown environment. For this project we used a Raspberry PI running ROS to host our flight control system, and an arduino for accessing and filtering sensor data. I was responsible for interfacing the hardware and sensors, setting up the ROS environment on the Pi, and handling wireless communication. I also helped to create the autonomous control system.
MAY 2013 - JULY 2014	AMBER Robotics Lab I worked under the supervision of Dr. Ames on developing an autonomous cruise controller for cars and a hardware system to test the cruise controller. The cruise controller utilized non-linear control theory and was written in C, while the hardware system was an electric RC car with a UDOO microcontroller and arduino on top of it. ROS (Robot Operating System) was placed on the UDOO so that it could act as the motherboard, and the arduino was used to read in and filter sensor data then send it to the UDOO.

RELEVANT COURSE WORK

ELECTRONICS: Linear Control Systems, RF and Microwave Wireless Systems,
Microwave Circuits and Systems, Optical Communication Systems,
PROGRAMMING: Microprocessor Systems Design(C and Verilog), DSP Based Electro-
Mechanical Motion(C), Computer Architecture(MIPS Assembly and Verilog)

KEY SKILLS

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|-----------|-----------------------------|
| • C/C++ | • Microcontrollers |
| • Python | • Linux |
| • Verilog | • Digital Signal Processing |