

# Dennis MOORE

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Bakersfield, CA | 03 September 1993  
ADDRESS: 2551 West Villa Maria Road, Apartment 1012, Bryan, TX, 77807  
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## EDUCATION

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DECEMBER 2015 Bachelor of Science in ELECTRICAL ENGINEERING, **Texas A & M University**  
MAY 2011 Graduated with highest honors, **Kingwood High School**

## WORK EXPERIENCE

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| JUNE 2015 - CURRENT    | <b>SOE</b><br>Defined a low level interface between two processors (Piccolo and Arduino) to allow for SPI communication between the devices. Designed a level shifter to match their voltages. Implemented error checking to throw away bad data packets.  |
| AUGUST 2014 - MAY 2015 | <b>AggiE Challenge</b><br>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 the wireless communication. |
| MAY 2013 - JULY 2014   | <b>AMBER Robotics Lab</b><br>I worked on 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++. I handled the low level interface between the MCU and the encoders.  |

## RELEVANT COURSE WORK

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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++            | • Java                      |
| • Python           | • Linux                     |
| • Verilog          | • FPGA Design               |
| • Microcontrollers | • Digital Signal Processing |
| • Javascript       | • SQL                       |
| • Perfecto         | • Automation Testing        |