NATHANIEL C. MANSKE

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EDUCATION

The University of Texas at Austin **Austin, TX** **May 2016**
- B.S.E. in Computer Engineering
- Overall GPA: 3.33/4.00
- Related Coursework: Embedded Systems Design Lab, Software Engineering and Design Lab, Software Design and Implementation II, Computer Architecture, Digital Systems Design Using HDL, Senior Design Project

Texas A&M University **College Station, TX** **2012 – 2013**
- Major: Electrical Engineering
- Overall GPA: 3.48/4.00
- Related Coursework: Introduction to Program Design and Concepts

ACADEMIC EXPERIENCE

- **Wi-Fi Enabled Voting Machine** (2016). Designed a portable device using a custom PCB; submitted polling results to a server after verifying a unique PIN; displayed database contents in table and graph formats. C, LAMP, HTML, JavaScript.
- **BBQ Smoker Temperature Controller** (2016). Fabricated a prototype that maintained the temperature of a smoker using a fan and control feedback loop; connected the controller to an Android phone via Bluetooth. C.
- **Online Multiplayer Maze Game** (2015). Developed a competitive racing game using the Socket.IO protocol; included an in-game chat window and various player upgrades. JavaScript, HTML, PHP, JSON.
- **Interactive Calendar** (2013). Created a desktop application that can be used as a scheduler; implemented custom themes and lunar phases. C++.

SKILLS

- Java; C; C++; JavaScript; Python; MySQL; HTML; CSS; PHP; JSON; Verilog; VHDL; MATLAB; Git; Bash
- Eclipse; NetBeans; Code Composer Studio; Keil µVision; PCB Artist; Microsoft Office

ORGANIZATIONS

- **Internal Affairs Chair, Engineers for a Sustainable World** (Fall 2015 – Spring 2016). Coordinated food arrangements using an allotted budget; volunteered for various fundraising events.
- **Member, UT Austin Robotics and Automation Society** (Fall 2013 – Spring 2014). Assembled a specialized robotic vehicle for competitive use.
- **Technical Fellow, Texas A&M IEEE Microcontrollers** (Spring 2013). Programmed TI microcontrollers in weekly workshops; assisted members with lab setup and debugging.

ACCOMPLISHMENTS

- **Third Place, Embedded Systems Design Lab Competition** (Spring 2016). Achieved third place for the Wi-Fi Enabled Voting Machine project out of 35 projects.
- **News Article, Senior Design Project** (Spring 2016). Featured in the Daily Texan Online for the demonstration of a BBQ Smoker Temperature Controller.

WORK EXPERIENCE

- **Technician, JRD Windshield Repair** (2015 – 2016)
- **Bakery Clerk, The Kroger Company** (2013 – 2014)