Michael Koger Darden

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EDUCATION

Bachelor of Science, Electrical and Computer, May 2018
The University of Texas at Austin
GPA: **3.76/4.00**

Related Courses
Embedded Systems, Software Design and Implementation (I & II), Circuit Theory, Linear Systems & Signals, Algorithms, Probability, Electromagnetic Engineering, Real-Time Digital Signal Processing

WORK EXPERIENCE

Student Technician, UT Applied Research Laboratories   06/16 – 08/16
• Setup *GitLab Continuous Integration* (CI)
• Wrote scripts in *Bash* to facilitate CI testing

ACADEMIC EXPERIENCE

Real-Time DSP Lab, The University of Texas at Austin   01/17 – 05/17
• Designed and implemented digital FIR and IIR filters
• Simulated software-defined radio and Implemented PAM transceivers
• Worked with signal generators, oscilloscopes, *MATLAB*, and *TI Code Composer Studio*

Software Design project, The University of Texas at Austin   06/16 – 08/16
• Created a graphical critter simulator using *Java*
• Learned how to use java Reflection and *JavaFX* libraries as well as *Scene Builder*

Embedded Systems Project, The University of Texas at Austin   04/15 – 05/15
• Created a "tag" video game on the *TM4C123 microcontroller* using *C* and *ARM assembly language*
• Placed in "supreme" category

Robotathon 2015, UT Robotics and Automation Society   10/15 – 11/15
• Created a robot car to play RAS-ball
• Programmed in *VIM*

Robot Car Project, The University of Texas at Austin   10/14 – 12/14
• Programmed in *Labview* and built breadboard circuits
• Interfaced photoresistors and IR sensors

PERSONAL PROJECTS

Personal Server   08/16
• Setup a Proxmox server to host chat, game, and web servers
• Setup Linux containers, VMs, and SSH with RSA encryption

3D design
• Designed an infinity-standing-desk using *SOLIDWORKS* and *Git*   07/16
• Designed and *3D printed* a formicarium using *SOLIDWORKS* and *MakerBot*   04/16

Arduino Projects
- Created an internet controllable desk-light using *Javascript* and *PHP*   09/16
- Created a Bike-Wheel Display using *Image Processing*   02/16
- Created a *5V DC power supply*   12/15

HackTX 2015, The University of Texas at Austin   09/15
- Created a static website using *HTML/CSS*
- Worked with *GitHub*

SKILLS

Experience with *Git, Java, C, C++, Bash scripting, MATLAB, Assembly language*, *Labview*, and *TI Code Composer Studio*
Proficient in *Windows, OS X, and Linux*
Experience with *soldering* and breadboard-circuits
Experience with *Arduino*, *Launchpad microprocessors*, and *TI TMS320C6700 Digital Signal Processors*
Experience with *HTML/CSS* web-design using *Bootstrap, Javascript, and PHP*
Experience with *GIMP* and *Photoshop*
Experience with *SOLIDWORKS* 3D design
Familiar with *Spanish* and *Portuguese*
Familiar with *Mandarin Chinese*

ACCOMPLISHMENTS

Administrative Vice President for *Texas Tricking*, Fall 2016 - present
UT Social Dance *Class Assistant*, Fall 2016 - present
Volunteer: English teacher in Peru, 2014
Volunteer: Veterinary assistant at Cape Town SPCA, 2013
Drumline Lieutenant, Outstanding Leadership Award, 2012-2013
Eagle Scout, 2009