

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, Digital Image & Video Processing, Principles of Data Science

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

Texas Tricking Club President, Fall 2017

UT Social Dance Class Assistant, Fall 2016 – present

Huawei Seeds for the Future Participant, 2017

Volunteer: English teacher in Peru, 2014

Volunteer: Veterinary assistant at Cape Town SPCA, 2013

Drumline Lieutenant, Outstanding Leadership Award, 2012-2013

Eagle Scout, 2009