

Abenezer Wudenhe

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EDUCATION

North Carolina State University (NC State)

PhD in Computer Science

GPA: 4.0

Expected: May 2022

University of Maryland, Baltimore County (UMBC)

BS in Computer Engineering – VLSI & Comp. Security Track

GPA: 3.504

May 2018

TECHNICAL SKILLS

Languages: C, C++, python, html, MPI, php, Arduino IDE, CUDA, OpenMPI
Operating Systems: Windows, Linux(Debian, Fedora, Ubuntu, Raspian OS)
Software Tools: Xilinx Design Tool, MATLAB, Cadence's Allegro Design Entry CIS, Atmel Studio, Git, Virtual Box, LaTeX, EAGLE, Autodesk, X11System

RELEVANT PROJECTS

VLSI Cache Design (Academic)

- Design, implement, and simulate in VHDL for a 32 byte cache
- Design the layout for the cache and ensure no design errors occur

Password Keeper Kernel Module(Academic)

- Write a Linux kernel module that creates and stores user passwords
- Implement module into a miscellaneous device compiled against 4.9 Linux source tree

Magic Smart Mirror (Extracurricular)

- Design and construct 3D printed modules for two way infinity mirror with a GUI
- Implement GUI using Google Calendar API, Raspberry pi, python, and Java

Arduino Workshop (Extracurricular)

- Design introductory course on microcontrollers and embedded systems
- Instruct students on how to utilize PWM, ADC, Servos, and analyze circuits

RESEARCH EXPERIENCE/EMPLOYMENT

University of Michigan Lab 4PROGRESS REU

2017 May - Aug 2017

- Constructed a cluster computing network
- GPU accelerated image rendering

Electroencephalograph (EEG) Study on Image Formation

2016 June - Aug 2016

- Organized data management from experiments
- Programed Matlab code for 3D graph plotting and analysis

High Performance Computing REU

2015 May - Aug 2015

- Conducted performance test on "Maya" server cluster
- Showed results and recommendations to speed up servers

PUBLICATION

A. Wudenhe, F. S. Choa, Q. Meng, Three-dimensional EEG signal tracking for reproducible brain activity monitoring. IEEE Xplore Digital Library 2017. 7846869.

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