

WINSTON MOH TANGONGHO

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EDUCATION

Bachelor of Science in Computer Engineering (Major)

Graduated – May 2018

Minnesota State University, Mankato

Minors Computer Science, Networking and Information Security and Mathematics

GPA 3.83/4.00

RELATED COURSEWORK / TECHNICAL SKILLS

- **Programming Languages:** C/C++, C#, Java, Ruby, Python, Dart, Verilog, VHDL, MATLAB, HTML5, CSS, JavaScript
- **Software:** Git, Visual Studio Code, Android Studio, Microsoft Azure, Anaconda, Flutter, MS Office, AutoCAD, Cadence, Quartus, Eagle CAD, WireShark, Packet Tracer, Putty, NetCat, OpenCV/OpenGL
- **Databases:** MongoDB, Oracle
- **Hardware:** AVR XMEGA, Arduino, Raspberry PI, Atmel SAM D21
- **Operating Systems:** UNIX (Ubuntu), Windows OS
- **Frameworks:** freeRTOS, Rails, Bootstrap

WORK EXPERIENCE / ENGINEERING PROJECTS

Computer Science Teaching Assistant, MSU, Mankato

August 2017 – May 2018

- Worked with Course Instructor to prepare coursework and labs for Intro to Computer Science 1&2 courses in C++.
- Held office hours to assist students with their projects and Assignments every week.
- Assisted students by preparing them for upcoming tests or exams after school or during study periods.

Smart Home Automation System, MSU, Mankato

August 2017 – May 2018

- Designed a Home automation system by using an Arduino with C programming, an iOS or Android phone for voice commands, a 1Sheeld+ device for relaying the information via Bluetooth, an LCD to display information and a relay to connect to real appliances on a PCB.
- Converted the Home Automation system to a real-time system by using the freeRTOS framework. This improved the efficiency of the system as critical commands were given a higher priority.

Project Team Finder, Mankato, MN

January 2018 - May 2018

- Planned and designed a Web application with Ruby on the Rails framework. Application allows users to create profiles and search for projects they like. Application also gives users the ability to message project owners and form teams.
- Implemented UI using MVC, HTML, CSS, SQL and Bootstrap to create responsive web pages.
- Improved efficiency in project management by using Agile Development methodology.

GPS Controlled Autonomous Car, MSU, Mankato

August 2016 – May 2017

- Accomplished autonomous driving using GPS Waypoints for an RC car.
- Used an Arduino to interface with the DC Motors, ultrasonic sensors, accelerometer, GPS shield and the LCD Display.
- Designed object detection algorithms using thermal camera.

Hackathons

March 2018 – May 2018

- **OvenBot at PerkinsHack;** Software Program to assist visually impaired individuals in using their smart Home appliances.
- **WatchAsWords at Bitcamp;** Software program to provide video transcribing services for videos.
- **SlightC at HackFSU;** Programming language with C & Python-like characteristics for High School Students.

PROFESSIONAL SKILLS / HONORS

- **National Society of Black Engineers, Treasurer:** **August 2017 – May 2018**
- Volunteer: Habitat for Humanity Restore, Math Tutor at MSU, Mankato, Echo Food Shelf
- John P. and John R. Habinger Electrical Engineering Scholarship, E.F Johnson Scholarship, Rudy and Leone Salfer Scholarship **Fall 2015, Fall 2016, Fall 2017**