

TAKONDWA KAKUSA

OBJECTIVE To obtain a full time position with an emphasis on embedded systems, low level coding, or backend server coding

EDUCATION **B.S., ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING, EXPECTED MAY 2017**
M.S., COMPUTER ENGINEERING, EXPECTED MAY 2018
Virginia Tech, Blacksburg, VA
Cumulative GPA: 3.83; In major GPA: 3.85
University Honors College, August 2013 - Current

SKILLS **Software languages:**
C, C++ (including OpenCV and Qt libraries), Perl, Python, LabVIEW, Matlab
Software:
LTSpice, Quartus, Verilog, MPLAB, Arduino
Certificates:
LabView CLAD Certification, May 2015
NOCTI Engineering Certification, April 2013
ACE Project Management certification, July 2013

WORK HISTORY **INTERN, INTEL CORPORATION**
May 2016 – August 2016

- Wrote code that was used to automate many of the processes that needed to be run in order to implement a predesigned SCAN interface
- Designed a graphical user interface to simplify the work needed to be done by hand when doing the MBIST

RESEARCH, DECRYPTION OF MISR CIRCUITRY
August 2015 – May 2016

- Reverse engineer MISR circuitry for use in solving BIST systems

TECHNICIAN, SOFTWARE ASSISTANT TRIAGE (SWAT)
August 2015 – February 2016

RESEARCH, CODE BREAKING USING LOGIC CIRCUIT CONCEPTS
January 2015 – August 2015

TECHNICIAN, SERVICE DESK TECHNICIAN, VIRGINIA HOSPITAL CENTER
June 2014 – August 2015

PROJECTS **AUTONOMOUS ROVER TRACK CREATION AND FOLLOWER SYSTEM**
Embedded design project which contains two autonomous rovers. One rover maps out a course on a surface while traversing a course, while the second one follows this course and creates a virtual map that is then displayed in a separate graphic user interface.

BLUETOOTH PORTABLE SPEAKER
Uses a Bluetooth audio receiver to communicate with another Bluetooth device, such as a phone, in order to play music through three speakers that are attached to it.

ARDUINO SMART WATCH
Arduino based smartwatch that implements a Bluetooth module controlled through a phone as well as keeping much of the functionality of most common watches.

QUADCOPTER
Mini FPV quadcopter with a Multi-Wii flight controller

ACTIVITIES **RESIDENTIAL ADVISOR, Fall 2015 - Current**
ECE EMBASSADOR, Spring 2015 - Current
IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS), Fall 2014 - Current
HKN (HETA KAPPA NU), Fall 2014 - Current