CHIMA DANIEL NNADIKA

ELECTRICAL / ELECTRONICS / EMBEDDED / SOFTWARE
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EDUCATION

UNIVERSITY OF LEEDS
MSc Electrical/Electronics Eng.
Class of 2018.

UNIVERSITY OF ESSEX
BEng Electronics Eng.
Class of 2014.

SKILLS

Software
c/c++, Objective-C,
python, java, javascript
HTML5/CSS3, verilog/xilinx, Visual studio, Atom, Xcode, Eclipse.

Operating systems
Linux OS, Windows OS, mac OS

Platforms
Robot Operating System, Eagle pcb design, Advanced Design System, Opencv, matlab, mbed, Raspi 3, Arduino, Solidworks, Autocad, Rawtherapee, GIMP

Office suite
Word, Excel, Power point, Libreoffice.

Teamwork
Github, Trello, Slack

EXTRACURRICULAR

Web design/development
Technical partner, Zicli Synergy
Basketball team, Dansol High

INTERESTS

Photography, Literature, Philosophy, Robotics, Video games, Basketball, Science journalism, Music, Podcasts, Stock Markets

EXPERIENCE

OPERATIONS / INSTALLATION January 2018 – Present
ZICLI | manufacturing
I made use solidworks and autocad to design a floor-plan needed for wire routing of camera systems across factory grounds. Testing of factory equipment, including paint mixer, pumps, and voltage regulators.

Early design of paint production line for smooth operation, cost cutting, safety and effective time management.

DATA ANALYST / IT June 2016 – March 2017
DSCHC | health and medicine
Part of the first team to facilitate the setup and maintenance of medical data collection service for hospitals across the state. Using several datasets from each hospital, we were able to better distribute medical resources to where it was most needed.

Worked on an advertisement project as a lead writer and co-producer to help raise awareness for social medical healthcare.

ELECTRONICS ENGINEER September 2015 – January 2016
KnowHow | repairs and logistics
I learnt a lot about electronics troubleshooting, testing and diagnostics. Working in an industrial assembly line gave me an added perspective on electrical assembly and fault analysis of electronic circuitry.

JUNIOR INTERN June – August 2014
Epic Atlantic | oil and gas
While working with a team under the electrical department, I gained key skills in heavy machinery installations and their control. I suggested and helped to implement an embedded based power control system in place of analogue switched control.

PROJECTS

IoT TEMPERATURE LOGGER
I designed a temperature logging device using the NXP LPC1786 mbed microcontroller, using C++. I also used eagle CAD to design its hardware hub. The system could log it's data via Wi-Fi to my computer and plot a graph on its LCD display.

SLAM ROBOT
I designed a robot using servo motors, a raspberry pi 3 alongside a pcb circuit full of sensors. The robot was capable of 3d mapping and navigation. I used ROS for the framework and a kinectSensor for its eyes.

BARE METAL VIDEO GAMES
Designed several video games on a bare metal Altera DE1-Soc development board, utilizing the Eclipse IDE environment. The games incorporated object oriented C, verilog IP cores, multi-board capabilities with the help of drivers I wrote myself.

PERSONAL WEBSITE
designed and developed a personal website from scratch using HTML5, CSS3 and javascript.

GIMP-PLUGIN
Designed a software Plug-in for interactive painting animation on any given image for the GIMP platform.