

Freeman Ulrich Talla Wouoto

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Objective

To grow in knowledge and experience as an Engineer and bring innovation to this world.

Experience

EMBEDDED FIRMWARE ENGINEER UNITED TECHNOLOGIES (now CARRIER CORPORATION)

 June 2018 – Present  Sarasota, FL

- ❖ Define, test and validate key subsystems and components such as sensors, notification and communication devices, and microcontrollers.

- ❖ Drive system design and innovation, prototyping, firmware programming, along with provision of diagnosis techniques to support production engineers tasked with the transition of products to manufacturing.

TECH SHOP STUDENT ASSISTANT KENNESAW STATE UNIVERSITY

 Jan. 2018 – May 2018  Marietta, GA

- ❖ Provided students, working on class projects, with components (resistors, capacitors, chips); kept an up-to-date inventory of components in stock, taking note of those that needed to be replenished. I also provided other administrative support, as needed.

ELECTRICAL ENGINEERING INTERN PERENCO CAMEROON

 Jul. 2016 – Aug 2016  Douala, Cameroon

- ❖ Conducted a detailed survey to collect design data (schemes) and power rating specifications of all electrical equipment at PERENCO's Base, Bassa, to establish the power budget in view of lightening its soccer field. In conducting this investigation, several instruments were used including the power quality analyzer C.A. 8332.

Projects

Redesign of Analog Addressable Input-Output Modules CARRIER CORPORATION

 Jan. 2019 – Dec. 2019  Sarasota, FL

- ❖ Led the redesign of Analog Addressable modules, in an effort to address their microcontrollers going end-of-life, so as to keep our products on the market – millions of which are sold annually in the US and in EU.

Motor Control System Design KENNESAW STATE UNIVERSITY

 Apr. 2018 – May 2018  Marietta, GA

- ❖ Designed and specified the electrical & control system for a PLC based, automated transport system together with the ladder logic program to allow the PLC to provide the proper operational logic to drive the system.

Solar Tracking Device Charger KENNESAW STATE UNIVERSITY

 Jan. 2017 – Apr. 2017  Marietta, GA

- ❖ Developed C code along with schematics and hardware structure of the project; Device implements a small solar charger (for low voltage devices - cell phones). Solar panels track the sun using light sensors and optical encoders for feedback and stores the generated energy in a bank of super-capacitors.

Education

Bachelor of Science in Electrical Engineering Technology

Kennesaw State University
GPA: 4.0 (Summa Cum Laude)
Minor: Computer Science

Certification

Engineer-In-Training (License #: EIT027683)
From State of Georgia, issued by Brian P. Kemp,
Secretary of State, State Board of Engineers
and Land Surveyors.

Strengths & Skills

Hardware related: Proficient in using oscilloscopes, logic analyzers and multi meters, debuggers to design, test and validate embedded systems.

Software related: Proficient in writing firmware in C making use of interrupt features, ADC, Watchdogs, High frequency oscillators and Timers on embedded processors/microcontrollers.
Also proficient in writing software – the Object-Oriented way - in C++ and Java.

Languages

- ❖ French
- ❖ English