

AMOAKO - FRIMPONG SAMUEL YAW

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EDUCATION

Marquette University September 2016 - May 2018

MS. Electrical and Computer Engineering **Options** – Mod. Control Theory, Bayesian Signal Processing, Machine Learning

Kwame Nkrumah University of Science and Technology October 2011 - May 2015

BSc. Aerospace Engineering **Options** – Automatic Control, CAD/CAM, Maintenance Eng., Turbomachinery

SKILLS

Software Development: Python, C, C++, MATLAB, Visual Basic, LabVIEW, OpenCV, ROS, Unity, TensorFlow.

Electronics: Circuit & PCB design, Embedded Systems (PIC, AVR, ARM).

CAD/CAM: SolidWorks, Solid Edge, ANSYS, AutoCAD, Unigraphics NX, CNC machines.

WORK EXPERIENCE

Research and Teaching Assistant September 2016 – Present

Computer Vision and Sensing Systems Lab (COVISS) Marquette University

- Working on the development of stochastic search algorithms for improving the dynamic search performance of mobile manipulators with MATLAB, ROS, and Python.

Research and Teaching Assistant [National Service] September 2015 – August 2016

Earth Observation Research and Innovation Centre University of Energy and Natural Resources

- Assisted in the software setup and server administration for an Earth Observation Satellite ground station.
- Developed a pipeline to enable automated distribution and archival of processed data using Python, Batch and Bash scripts; robust to incorrect metadata, network dropouts and power outages.

Software Development Intern Premium Collateral Management Ltd July 2016 – August 2016

- Streamlined an iterative process for petroleum stock management in Excel, with custom software written in Visual Basic, to improve productivity.

PROJECTS

Qbay - Augmented Reality for Education **P-[Space]** - Computer Vision for Parking Assistance

TopBird – Gamified entrepreneurship education **Autonomous Quadcopter** – Senior Design Project

LEADERSHIP EXPERIENCE

Vice President - Association of Aerospace Engineering Students (AAES) [2013-14], Creativity Group-KNUST [2013-14]

Ass. Projects and Innovation Head – IEEE- KNUST [2013-15] **P.R.O** - AAES [2012-13], SAE-KNUST [2012-13]

AWARDS

GESA Makers Fair (1st), MYC Award, GhIE Calabash Award (3rd), IISO (Bronze Medal), GIZ Hackathon (Finalist), DSTV-EUTELSAT Star Award (2nd), GRAF Medal, Behance Medal, OdadeE Special Award, Accra Science Hack day (2nd)