

David Kofi Oppong

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Personal Statement

A self-motivated individual who has good interpersonal and communication skills and is capable of working individually or on a team to achieve set goals, in a bid to improve people's lives through technology.

Education

1. Master of Technology in Avionics August, 2019 – June, 2021
Jain University, Bangalore – Karnataka, India
 - Courses taken include Navigation and Communication Systems; Embedded Systems; Flight Dynamics; UAV Systems Design; Aircraft Systems Engineering, Standards and Certification; Flight Instrumentation
2. BSc. Aerospace Engineering August, 2012 – June, 2016
Kwame Nkrumah University of Science and Technology, Kumasi – Ashanti, Ghana
 - Courses taken include Avionics, Aircraft Stability and Control, Automatic Control Systems, Aircraft Performance and Design
 - Worked together with members of final year project team to complete the design and construction of a payload-carrying UAV
3. General Science October, 2007 – June, 2012
Sunyani Senior High School, Sunyani – Bono Region, Ghana
 - Subjects studied include Physics, Mathematics, Biology and Chemistry
 - Obtained A's in all subjects on the final examination
 - Was awarded a scholarship to study in the USA for a year

Work Experience

1. Assistant Lecturer January, 2022 - Present
Department of Mechanical Engineering (Aerospace Program), Kwame Nkrumah University of Science and Technology
2. Science Teacher November, 2018 – July, 2019
Damascus M/A Junior High School, Kofiase – Ashanti, Ghana
 - Learned to absorb information and present it in a simplified manner for people to understand
3. Research Assistant July, 2016 – January, 2018
University of Energy and Natural Resources, Sunyani – Bono Region, Ghana
 - Implementing algorithms to investigate the fractal properties of digital elevation models using Matlab
 - Obtaining and analyzing satellite data to aid in weather forecasting
 - Part of team manning earth observation satellite reception station
 - Improved upon technical writing and presentation skills

4. Aircraft Maintenance Intern
School of Trade Training, Ghana Airforce Base, Accra
- Studied modules relevant to aircraft maintenance

May 2013 – August 2015

Publications

1. Kwao, Lazarus and Millham, Richard and Oppong, David and Xornam Ativi, Wisdom, Multi-Factor Biometrics for Enhanced User Authentication in an E-Health System, Ghana (2020). *Texila International Journal of Management*, 2020, Available at SSRN: <https://ssrn.com/abstract=3687496> or <http://dx.doi.org/10.2139/ssrn.3687496>
2. (Submitted for publication) Oppong, D. K., Williams, S. V., Natarajan, K., Design and development of a low-cost Inertial Navigation System for Small Unmanned Aerial Vehicles. <https://docs.google.com/document/d/1qVnSy7VpoVguQTbYbNq3dy6MdMWjBgQw/edit?usp=sharing&oid=111799827477011612291&rtpof=true&sd=true>
3. (Submitted for publication) Oppong, D. K., Obu, E., Asare, T., Aidam, G. S. K., Development and Validation of the Multicopter Modelling Code: A Physics-Based Tool for Multicopter Analysis. https://docs.google.com/document/d/1Qjb-x2Ob8DkJSg85d_aJYhGkcP4R_rdu/edit?usp=sharing&oid=111799827477011612291&rtpof=true&sd=true

Skills

- Team work
- Leadership
- Computer Literacy: C, C++ programming languages; Matlab/Simulink; Microsoft Office
- Driving

Volunteering and Leadership

- Volunteer educational outreach to Kumasi Children's Home (Kumasi, Ghana), 2013 - 2015
and Compassion Is Love In Action Children's Home (Sunyani, Ghana)
- Youth choir and Orchestra leader, *Deeper Life Bible Church, Obuasi & Mampong* 2017 – 2018
- President, *Robotics Club, Sunyani Senior High School* 2011 – 2012
- Vice president, *Science and Math Club, Sunyani Senior High School* 2009 – 2010

Interests

- Teaching | Volunteering | Reading | Programming

Memberships, Certificates and Awards

- Member, National Society of High School Scholars, USA
- Certified Early Childhood Mathematics Trainer, Institute of Mathematics Studies, Ghana
- Best student, Sunyani Senior High School, Sunyani - Ghana

References

1. Dr. K. Natarajan

Professor, International Institute for Aerospace Engineering and Management
Jain University, Bangalore – Karnataka, India

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2. Dr. Amos T. Kabo-bah

Associate Professor, and Former head, Earth Observation Research and Innovation Center
University of Energy and Natural Resources, Sunyani – Bono Region, Ghana

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3. Mr. Thomas Obuor

Senior Housemaster

Sunyani Senior High School, Sunyani – Bono Region, Ghana

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