**David Kofi Oppong**

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***Personal Statement***

A self-motivated individual who strives to maintain his integrity and produce quality work whether he works individually or on a team to contribute to a safe and secure aerospace industry.

***Education***

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| 1. | Master of Technology in Avionics | August 2019 – June, 2021 |
|  | *Jain University, Bangalore – Karnataka, India* |
|  | * Courses taken include Flight Dynamics; UAV Systems Design; Navigation and Communication Systems; Embedded Systems; Aircraft Systems Engineering, Standards and Certification; Flight Instrumentation
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| 2. | BSc. Aerospace Engineering | August 2012 – June, 2016 |
|  | *Kwame Nkrumah University of Science and Technology, Kumasi – Ashanti, Ghana* |
|  | * Courses taken include Air Vehicle Stability and Control, Aerodynamics, Propulsion, Aircraft Performance and Design
* Worked together with members of final year project team to complete the design and construction of a small UAV
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***Work Experience***

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| 1. | Assistant Lecturer | January 2022 - Present |
|  | *Department of Mechanical Engineering, Kwame Nkrumah University of Science and Technology, Kumasi – Ashanti, Ghana* |
|  | * Subjects taught include Air Vehicle Stability and Control, Avionics, Introduction to Aviation Technology, Statics of Solid Mechanics, Measurement and Instrumentation
* Member, Aerospace Program Accreditation Committee
* Aerospace Internship Coordinator
* Member, Industrial Training Committee
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| 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
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| 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
* Part of team manning an earth observation satellite reception station
* Obtaining and analyzing satellite data to aid in weather forecasting
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| 4. | Aircraft Maintenance Intern | May 2013 – August 2015 |
|  | *School of Trade Training, Ghana Airforce Base, Accra* |
|  | * Studied modules relevant to aircraft maintenance
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***Community Service***

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| 1. | New STEM High School Curriculum and materials development | June 2022 – Present |
|  | * *National Council for Curriculum and Assessment, Ministry of Education, Accra, Ghana*
* *Ghana Education Service, Ministry of Education, Accra, Ghana*
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| 2. | Subject matter expert (Aviation and Aerospace Engineering) | 2023 – Present |
|  | *West African Examinations Council, Accra, Ghana* |  |

***Publications***

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| 1. | **Oppong, D. K.**, Obu, E., Asare, T. and Aidam, G.S.K. (2022). Development and validation of the multicopter modelling code: a physics-based tool for multicopter analysis. Aircraft Engineering and Aerospace Technology, 94(10), pp.1684-1691. |
| 2. | **Oppong, D.K.**, Ampofo, J., Adjei, E.A., Agyei-Agyemang, A., Bofah, K.K., Aidam, G.S.S.K., Teye, M.K., Siva, C. and Williams, S.V., 2024. A method for determining the attitude of a small unmanned aerial vehicle using sensor error information and a neural network. *Indian Journal of Engineering and Materials Sciences (IJEMS)*, *31*(6), pp.909-913. |
| 3. | **Oppong, D.**, Ampofo, J., Adjei, E. A., Agyei-Agyemang, A., Bofah, K. K., Teye, M. K., Acheamfour, V. S.-B., & Aidam, G. S. K. (2024). Unmanned Aerial Vehicle Attitude Determination Strategies: A Review. *Journal of Advanced Mechanical Sciences*, *3*(1), 13–21. |
| 4. | God’sable, S.K., Adjei, E.A., Opoku, R., **Oppong, D.K.** and Agyare, W.G., 2024. Ghana's electric vehicle policy: a path to aviation industry decarbonization. *Journal of the Ghana Institution of Engineering*, *24*(3), pp.1-8. |

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***Skills***

* Teamwork
* Leadership
* Computer Literacy: *C, Python, Matlab programming; Microsoft Office; KiCad EDA; Web development with HTML, PHP, CSS and JavaScript*

***Memberships and Certificates***

* Member, National Society of High School Scholars, USA
* Certified Early Childhood Mathematics Trainer, Institute of Mathematics Studies, Ghana