

Michael R. Kyei-Baffour

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Permanent Address: 21 Homecrest Court Silver Spring, MD 20906

<u>Education</u>	University of Maryland: A. James Clark School of Engineering	Expected: May 2019
	<i>Master's Candidate: Aerospace Engineering</i>	
	University of Maryland: A. James Clark School of Engineering	May 2017
	<i>BS: Mechanical Engineering</i>	Overall GPA: 3.20
	<i>Minor: General Business</i>	
<u>Experience</u>	University of Maryland – Mechanical Engineering Department	Fall 2016 – Current
	<i>Design Research Assistant</i>	
	• Investigate individual variations of design process by examining design journals • Apply specific coding mechanisms to groups of ideas within the design journal. • Draw correlations between student ideation process and efficiency of the final design.	
	United Technologies: Sikorsky Aircraft Corporation	Winter 2015 – Summer 2015
	<i>Systems Engineering Co-Op</i>	
	• Facilitated communication between SAC engineers and customer, including the transfer of Engineering Changes, CAD drawings, IP information, and maintenance instructions. • Inspected CAD Drawings for specific design requirements and ASME and MIL-STD regulations. • Maintained and organized multiple spreadsheets containing proprietary design information. • Developed a schedule and procedure for technical data delivery CDRL between suppliers, SAC, and customer.	
	United States Department of Transportation	Summer 2014
	<i>Federal Highway Administration: NHTSA Engineering Intern</i>	
	• Investigated the correlation between vehicle front-end design and the pedestrian fatality rate. • Refined design data collection method by using imagining and CAD programs. • Presented research and possible design solutions through at the end of program.	
<u>Leadership</u>	University of Maryland – Mechanical Engineering Department	Fall 2016 – Spring 2017
	<i>ENME371 Teaching Fellow</i>	
	• Assist staff in lab sessions where students would learn the importance of Product Testing, Thermal, Mechanical, Electrical, and Ergonomic design considerations. • Reinforce concepts such as stack-up design, Design for Manufacturing (DFM), Statistical Tolerances, Human Factors Engineering, and Sustainability Engineering	
	Louis Stokes Alliance for Minority Participation	Summer 2013 – Summer 2014
	<i>Bridge Program Mentor</i>	
	• Assisted teachers in reinforcing essential concepts for first-year engineering math courses. • Advised incoming engineering students on four year plans. • Referred students to helpful college resources (specialized focus groups, individual study areas, and on-campus tutors).	
<u>Skills</u>	Proficient: CATIA/SolidWorks/Pro-E/Autodesk/NX/Creo Parametric, Visual Basic, MATLAB, Microsoft Office (Word, PowerPoint, & Excel)	
	Exposure To: Java, C/C++, HTML, JavaScript, Microsoft Access, Rational DOORS	