## KYLE JOHNSON

		EDUCATION
BACHELOR OF SCIENCE	Sept 2017 To Jun 2020	B.S. in Electrical and Computer Engineering (Major GPA: 3.71/4.0) University of Washington (UW), Seattle, WA Concentration: Controls, Minor: Math
STUDY Abroad	Aug 2018 To Sept 2018	Aeronautics and Astronautics Design of Novel Materials and Structures Queensland University of Technology (QUT), Brisbane, QLD
		RESEARCH
UNDERGRAD	Mar 2018 To Present	Research Intern, Lab for Engineered Materials & Structures (LEMS) Advisors: Hiromi Yasuda, Professor Jinkyu Yang (PI)
		Project: Investigate design and fabrication techniques for the leaf-out origami structure utilizing visualization software to laser cut prototypes
		Interests: Origami Robotics, Energy Efficient Systems, Machine Learning
PRESENTATIONS	Sept 2019	Knaus C., Ali S., Garcia-Stubbs D., Johnson K., Mohamud L. (2019) Trauma, Educational Exclusions, and Survival: Examining Global Student Experience & Resilience. <i>UNISA Academic Development Symposium</i> .
	July 2019	Johnson K., Arroyos V., Yang J. (2019). Leaf-out Origami: Tailorable Fabrications and Applications. <i>UCLA Ronald E. McNair 2019 Proceeding</i> .
	May 2019	Johnson K., Yasuda H., Yang J. (2019). Leaf-out Origami: A Multitransformable Structure. UW Ronald E. McNair 2019 Proceeding.
WORKSHOPS	Jun 2019	Johnson K., Yasuda H., Yang J. (2019). Multitransformable Origami: Dynamic Simulation and Fabrication. <i>UW-LAUM-ChunBook-UPenn Proceeding</i> .
		MENTORSHIP
UNIVERSITY	May 2019 To Present	Tutor, UW College of Engineering (COE) Lead engineering activities for summer programs like Early Engineering Institute and Math Academy to increase K-14 student interest in engineering
	Mar 2019 To Jun 2020	Engineering Peer Educator (EPE), UW Advise, mentor, and support undeclared engineering students to help them find an engineering major by teaching the UW's GEN ST 199 curriculum
	Oct 2018 To Jun 2020	Ambassador, Louis Stokes Alliance for Minority Participation in STEM (LSAMP)  Identify and engage prospective students at recruitment events and network with professional organizations for the purpose of collaboration
COMMUNITY	Aug 2018	Teacher, Northwest Earth and Sciences Pipeline at UW Taught middle school students how to code and hardwire a multitude of different sensors and devices using an Arduino Uno board

SOFTWARE		SKILLS  Digital Circuits and Systems (Verilog), FPGAs (Quartas), ModelSim, Data Abstraction & Encapsulation (Java), Embedded Systems (C), VMWare, Continuous Time Linear Systems (Python), Multisim, JavaScript, XML, HTML, CSS, SSH key rotation, Finite Element Analysis (MATLAB)
TECHNOLOGY		CO <sub>2</sub> Laser Cutter (ULS Interface), Arduino Assembly, 3D Printing, Soldering, Coupon design & prototyping for tailored mechanical properties (Materials Test Frame), Vertical Force-Displacement Machine
		EMPLOYMENT
INDUSTRY	Jun 2020 To Aug 2020	Control Systems Engineer, Whirlpool Corporation Project: Analyze a multi-state estimator for a washing machine motor using only electrical values as a substitute to sensors. Utilize MATLAB & Simulink code to simulate experiments that implement filters like the Kalman filter
ON-CAMPUS	Mar 2018 To Aug 2019	Web Developer, UW Student Technology Fee (STF) Project: Maintain, update, and debug the STF website while following industry coding standards as an executive member on the STF admin team
		SERVICE
UNIVERSITY	2019	University Guide, Yakima Valley College campus visit
	2019	Panelist, UW Scholar-Donor Recognition Luncheon
	2019	Speaker, Electrical & Computer Engineering Undergraduate Orientation
	2019	Volunteer, For National Society of Black Engineers at Engineering Launch
	2019	Panelist, PNW LSAMP Leadership & Training Seminar
	2019	Panelist, UW McNair Upward Bound Workshop
	2019	<u>Volunteer</u> , Future Student Visit Day
	2019	Volunteer, UW Advising & Orientation Sessions
	2019	University Guide, for underrepresented students in local middle and high schools interested in pursuing a college degree at UW
	2019	Coordinator, for UW's STEM study abroad in Australia table at Engineering Discovery Days
	2019	Panelist, UW Admitted Student Preview Day
	2019	Tech Support, UW Women in Science and Technology Conference
	2019	Workshop Presenter, LSAMP 3D Printing and Design
	2019	Workshop Presenter, UW's STEM Study Abroad in Australia
COMMUNITY	2019	Volunteer, Seattle MLK Coalition
	2018	Volunteer, Bellingham Community Meal Program

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HONORS	2020	National Science Foundation GRFP Honorable Mention
SCHOLARSHIPS	2019	Ronald E. McNair Scholar
	2019	UW Dean's List
	2019	Washington Research Foundation Scholarship (\$7,500)
	2019	UW Electrical Engineering Scholarship (\$6,000)
	2019	Mart Bert Endowed Scholarship (\$1,000)
	2019	NSF Research Experiences for Undergraduates (\$8,000)
	2019	OMA&D Recognition Scholarship (\$4,500)
	2019	Mary Gates Research Scholarship (\$5,000)
	2018	LSAMP Research Scholarship (\$1,500)
	2018	NSF Research Experiences for Undergraduates (\$8,000)
	2018	OMA&D Merit Scholarship (\$2,000)
	2018	MSEP Scholarship (\$2,750)
TRAVEL GRANTS	2019	Benjamin A. Gilman International Scholarship (\$2,500)
	2018	Plan to Go (\$2,500)
	2018	EOP Travel Grant (\$900)
PRESS	2018	William E. Boeing Department of Aeronautics and Astronautics News, "A&A's Australia Summer Program Helps Forge Future Directions With LSAMP"