

Dominic Herincx

dherincx@gmail.com | (323) 775 - 6502 | dominicherincx.me

Education	Northwestern University , Evanston, IL December 2019 <ul style="list-style-type: none">- Bachelor of Science in Mechanical Engineering- Coursework Examples: Stress Analysis, Manufacturing Methods, Mechanics of Materials, GD&T, Solid Modeling			
	California Academy of Mathematics & Science (CAMS) , Carson, CA June 2015 <ul style="list-style-type: none">- Concurrent enrollment at California State University, Dominguez Hills (CSUDH)			
Work Experience	SpaceX , Hawthorne, CA June 2018 - Present <u>Production Intern</u> <ul style="list-style-type: none">- Developing processes and mechanisms for fluid system flight-readiness cleaning in order to reduce operation time and improve on adherence to standards- Implementing cleaning processes, pushing them to the production floor and training technicians- Creating and processing weld-line issue tickets, determining extent of weld defects to minimize production downtime			
	Simplehuman , Carson, CA June 2017 - Aug. 2017 <u>Mechanical Engineering Intern</u> <ul style="list-style-type: none">- Developed concepts for automatic disengaging clutches for small electric motors- Designed and built a stepping robot to life-cycle test trash cans and evaluate performance of prototypes- Ensured proper design for manufacturing and assembly (DFM and DFA) of designs			
	R&D Intern June 2016 - Aug. 2016 <ul style="list-style-type: none">- Designed and prototyped air flow control device with lower weight and cost, and smaller size than market equivalents- Developed a prototype for a newly proposed product, taking the project from a preliminary idea to a proof-of-concept			
	JH Science Academy , South Korea Aug. 2015 - Sept. 2015 <u>Mentor</u> <ul style="list-style-type: none">- Mentored elementary through high school students in VEX Robotics, including the design, assembly, and programming of small competition robots			
	Boeing , El Segundo, CA June 2014 - Aug. 2014 <u>High School Intern</u> <ul style="list-style-type: none">- Researched and presented on fiber optic gyroscopes and their applications- Built fiber optic gyroscope to demonstrate understanding of Sagnac effect			
	Space Ice CubeSat Mission , Evanston IL Sept. 2017 - Present <u>Lead Engineer</u> <ul style="list-style-type: none">- Lead the payload design to ensure machinability, structural integrity, and compliance to standards- Develop methods and fixtures to manufacture small components without use of specialized machinery- Handle logistics such as communication with partners, manufacturing schedules, and purchases			
	Northwestern Formula Racing - FSAE , Evanston, IL Sept. 2015 - Present <u>Engineer/Creative Director</u> <ul style="list-style-type: none">- Pioneering transition to 3D metal printed uprights with microstructure interior- Designed wheel centers with 17% moment of inertia and 6% weight reductions, and aerodynamics package mounts- Performed bearing selection for wheels and selected placement of corner components within the wheel- Implemented new machining techniques, such as t-slot cutting and multi-piece setups, to increase machining efficiency- Led design of aesthetic-driven elements, such as the paint job, wing endplates, and branding materials			
Design Thinking and Communication , Evanston, IL Sept. 2015 - June 2016 <u>Project Manager, Design Engineer</u> <ul style="list-style-type: none">- Applied principles of human-centered design to help paralysis patients perform the daily and therapeutic tasks of washing dishes and painting				
FIRST Robotics Competition , Carson, CA Sept. 2013 - June 2015 <u>Captain</u> <ul style="list-style-type: none">- Led design, manufacturing, and assembly of custom gearboxes, a drive train, and an elevator lift mechanism for a competition robot- Facilitated general meetings, design discussions, and mentoring sessions				
Skills	CAD/CAM <ul style="list-style-type: none">- SolidWorks- NX (Unigraphics)- Autodesk Inventor- Ansys (Workbench, Mechanical, Fluent)- FEA	Manufacturing <ul style="list-style-type: none">- CNC/Manual Mill- Manual Lathe- Additive Manufacturing- Injection Molding- GD&T	Programming <ul style="list-style-type: none">- Matlab- C++, C#- Arduino- HTML, CSS	Media Creation <ul style="list-style-type: none">- Illustrator, Photoshop- Keyshot- Final Cut Pro- After Effects