

Dominic Herincx

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Education	Northwestern University , Evanston, IL June 2019
	<ul style="list-style-type: none">- Bachelor of Science in Mechanical Engineering- Coursework Examples: Mechanical Design and Manufacturing, GD&T, Mechanics of Materials, Solid Modeling
Work Experience	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)
	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 step trash cans and evaluate performance of movement-prevention mechanisms- Designed modular, adjustable button testers to test feel of button configurations- Ensured proper design for manufacturing and assembly (DFM and DFA) of designs
	<u>R&D Intern</u> June 2016 - Aug. 2016
	<ul style="list-style-type: none">- Designed and prototyped an air flow control device with lower weight, smaller profile, and lower cost than comparable products- Developed a prototype for a newly proposed product, taking the project from a preliminary idea to a proof-of-concept- Tested Foam Soap Pump output for quality and made changes to soap canisters to improve performance
	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
Activities	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 satellite bus team, machining schedules, and purchases
	Formula SAE , 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	Machining	Programming	Media Creation
	<ul style="list-style-type: none">- Solidworks- NX (Unigraphics)- Autodesk Inventor- GD&T- FEA	<ul style="list-style-type: none">- CNC/Manual Mill- CNC Router- Manual Lathe- Laser Cutter- 3D Printer	<ul style="list-style-type: none">- Matlab- C++, C#- Arduino- HTML, CSS	<ul style="list-style-type: none">- Illustrator, Photoshop- Keyshot- Final Cut Pro- After Effects