## Adam Circle

## **EDUCATION**

EDUCATION Rensselaer Polytechnic Institute, Troy, NY; GPA 3.43/4.00.		2016 - 2019
	Bachelor of Science, Mechanical Engineering.	
• Earned degree in 5 semesters.		
SELECTED PROFESSIONA	L EXPERIENCE (2.5 years)	
Zebra Technologies: Mechanical Design Engineer July 20		July 2019 - Present
• Designed CAD models, drawings, and support fixtures for plastic and sheetmetal production parts on an exciting upcoming product. Took ownership of components from concept design to production release, including working through the DFM, DFA, FAI, and testing stages of development.		
• Worked closely with indus teams to develop component	trial design, electrical engineering, software, supply chain, and manufacturing nts. Interfaced with overseas suppliers and inspection labs.	
<ul> <li>Took initiative to develop Monte Carlo simulation in Python to analyze a complex tolerance stackup.</li> <li>Created a detailed database of FPC connectors to make it easier for mechanical team to select components.</li> </ul>		
The Raytheon Company: Mechanical Engineering Intern May – Aug. 2018		
Designed, prototyped, and machined innovative custom components for Top Secret defense contract.		, ,
	nd performed industry trade studies for specialized technologies.	
MagneMotion, a Rockwell Aut	omation Company: Co-op Mechanical Hardware Engineer	Jan. – May 2018
• Led international team to develop trade show demonstration of key product line. Completed on-time and on-budget despite time zone differences, a tight schedule, and a rigid deadline.		
Performed R&D on state-of-the-art components for upcoming product line.		
<ul> <li>Led CAD development of \$20,000 custom internal testing platform, comprising over 1 ton of machinery.</li> </ul>		
<ul> <li>Designed mass-produced sales demo system to save the sales team time and decrease shipping costs. Turnkey system received rave reviews from stakeholders.</li> </ul>		
Completed Failure Analysis and Corrective Action (FACA) studies directly for customers.		
Sandia National Laboratories: Research and Development Intern May – Aug. 2017		
Developed automated data	processing program to simplify a 40+ page report into a concise executive	
<ul> <li>summary, saving significant operator time for a \$10,000/day particle accelerator.</li> <li>Published well-received paper on the processing program in IEEE Pulsed Power Conference proceedings.</li> </ul>		
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SKILLS         Computer-Aided Design         Strong experience in Creo, Solidworks, NX, Inventor, Fusion 360, and OnShape. Experience in		
(CAD)	modeling complex curvature and performing finite element analyses.	
Drawings	Strong knowledge of general dimensioning and tolerancing (GD&T) principles.	Significant experience
21011182	quickly and efficiently creating and maintaining documentation for parts.	Significant enperiore
<i>Communication</i> Won first place prize of \$1,000 for excellence in public speaking at RPI's MANESAC elevator pitch		ESAC elevator pitch
competition, 2019. Received an A in rigorous Speech Communication cou		-
Prototyping	Experience working with manual machine shop equipment including lathes, mills, drills presses, and	
	saws. Also experienced with laser cutters, waterjets, and 3D printers.	
Programming	Strong ability with Python, C/C++, and other languages. Experience integrating low level embedded	
	protocols including PWM, I2C, UART, and Serial. Experience with MATLAB a	nd LabView.
<i>Team Leadership</i> Led multidisciplinary teams at 12 hackathons and makeathons, including competitions at MIT,		
	Stanford, Harvard, and the Vatican. Won multiple prizes at MIT and other institu	ations.
SELECTED PROJECTS	tional austam flow athronous mode from about watel OTC common sets and 2D mi	utad names DDL 2010
FlamethrowerA fully functional custom flamethrower made from sheetmetal, OTS components, and 3D printed parts. RPI, 2019.WallPaintA robot that paints patterns and solid colors on walls. Built at MakeHarvard 2018, continued at MakeMIT 2018.		
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PathwaysA distributed mapping system to route cars efficiently in surge traffic conditions. Winner of "Best Use of Location Data", "Best Hack w/Startup Opportunity", and "Moonshot" prizes, worth over \$6,000 in total. HackMIT, 2017.		
Polarigo       A smart belt that helps blind individuals navigate and orient themselves using magnetic North as a reference point.		
Built in Inventor's Studio I course, 2017.		
<i>HermeSee</i> An IoT-enabled pair of shoes that helps blind individuals avoid obstacles by vibrating when an object is detected in		
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front of them. Built at MHacks at the University of Michigan, 2017.