Ronald Engineer 1234 Heritage Trail, Terre Haute, IN 47803 (937) 877-8475 | Careers@rose-hulman.edu

Education:	Bachelor of Science Engineering Physics Rose-Hulman Institute of Technology, <i>Terre Haute, IN</i> GPA: 3.11; GPA in major: 3.30	
	Honors & Skills:	
	 Design-process flow-experimentation setup-physics modeling 	
	 Physics design and optimization using Zemax 	
	• Matlab, C++, PIC-C, OpenGL and AutoCAD	
	Optical design and optimization using CodeV	
	 Writing macros using the CodeV macro language Knowledge of tools and procedures used in labs and workshops 	
	 Knowledge of tools and procedures used in labs and workshops Design of experiments 	
Work Experience:	NASA (Engineering Physics Intern), Greenbelt, MD	Summer 2018
Work Experience.	• Designed, outlined, tested, and programmed a modular autonomous robot with multifunctional	Summer 2010
	Transmissions, accurate and robust dead-reckoning navigation with error correction, and functional aesthetics.	
	 Designed, outlined, tested, programmed, and fabricated various prototypes of a multiple input 	
	touchscreen interface; market, manufacturing, and development costs and analysis figured	
	prominently throughout the project.	
	• Ran analysis on the WFIRST baseline optical model and placed the data in graphs and tables	
	so that it matched similar documentation that was produced for JWST.	
	• Made sure that the baseline optical models for WFIRST in both Zemax and CodeV matched.	
	L3 Insight Technologies (Engineering Intern), Londonderry, NH	Summer 2017
	• Wrote a MATLAB program to filter search for certain characteristics of avalanche	
	photodiodes and fit a curve to the data in order to assist production.	
	 Worked alongside a coworker in the design of an eyepiece for a rangefinder. Helped build prototype eyepieces on a tri-laser alignment machine. 	
	 Assisted in the MTF testing of the same prototype eyepieces. 	
	 Took laser diode divergence measurements. 	
	 Used a thermal chamber to analyze the effects of temperature on the wavelength 	
	and irradiance of laser diodes.	
	 Organized and submitted a large purchasing order of optical equipment and lab supplies. 	
	• Manually focused groups of visible and IR diodes so they could be bonded within spec.	
Lab Experience:	• Sotup up a standard Michaelson interferometer for use in identifying the index of refrection of sir	
	 Setup up a standard Michaelson interferometer for use in identifying the index of refraction of air. Designed a telescope with a specified f/# and field of view. 	
	 Designed a telescope with a specified 1/# and field of view. Designed a zoom camera lens for small object viewing at both 10 and 20 ft. 	
	Designed a zoom camera iens for sman object viewing at both to and zo n.	
Affiliations:		
	• Student member of SPIE (International Society for Optics and Photonics)	
Activities:	Rose-Hulman Institute of Technology	
	• NCAA DIII Athletics (Baseball)	
	Resident Assistant	
	Career Services Team	
	Robot Team (President	
	Diversity Connect Participant	