

CRAIG MORTON

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Summary	Mary Extremely driven mechanical engineering student with over a year's worth of relevant analyst experience with NASA & Sierra Nevada Corporation's Space Systems Group		
Education and Training	achelor of Science: Mechanical EngineeringExpected in 05/2022Iorth Carolina State University Raleigh, NC4.00 GPADean's List Honoree (Every Semester) <i>ENDOWED</i> Engineering Scholarship Recipient		
	 Some College (No Degree): Mechanical Engineering University College Cork Cork, Ireland Study Abroad Relevant Courses: Thermodynamics I & II, Heat Transfer, Statics, Dynamics, Electric Power Systems, Solid & Structural Mechanics, Structural Materials, Machine Dynamics, Fluid Mechanics, Automatic Control Systems, Applied Finite Element Analysis, Rocket Propulsion, Space Exploration Systems 		
Experience	Aircraft Design Intern (40 hrs/week)	06/2021 - 08/2021	
	 NASA Glenn Research Center Cleveland, OH (remote) Research and 3D Design of integral structural components for NASA Electrified Aircraft Propulsion concept vehicle flight demonstrator through SolidWorks Additional research into aircraft materials and assignment to components based on cost, weight, and strength. Preliminary structural analysis and proof of design through ANSYS Mechanical Presented design to NASA teams on several occasions, and wrote final report of project to AIAA standards 		
	Mechanical Engineering Co-op (40 hrs/week) Sierra Nevada Corporation Space Systems Group	01/2020 - 01/2021	
	 Worked full time for entire year primarily on design and analyst teams Created various 3D models and engineering drawings in SolidWorks to be manufactured or 3D-printed. These included mass simulators, improvements to existing testing fixtures, vibration testing components, etc. Assisted with conduction of Stress and Failure Analyses on large assemblies through ANSYS / Finite Element Analysis (FEA) Adapted to pandemic and maintained productivity through transition to remote work Gave project report presentations to engineering team in Durham after each quarter 		

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 SOLIDWORKS Support Drafter (15 hrs/week) Jordan Electric Motors Inc. Sanford, NC Use SOLIDWORKS to create models, part drawings, assembly draw 	02/2021 - Present wings, and drawings for	
manufacturing		
Carrying out company program transfer from AutoCAD to SOLIDWORKS, gaining a much		
 Develop more knowledge of electric motor design and manufact working under the supervision of a senior engineer 	cturing techniques while	
Summer Employment Intern (40 hrs/week) Easter Seals Tristate Cincinnati, OH	05/2018 - 08/2018	
 Helped run Easterseals non-profit summer employment program for underprivileged youth in Clermont County, Ohio Small team successfully oversaw 100 teens: organized entire program, gathered all necessary information, tracked their progress, followed up with appointments 		
Haiti Volunteer Trip – June 2017		
 Went to Haiti with mission group to continue relief efforts from the devastating 2010 earthquake Design and construction of 5 small houses in a recovering community, completely changing the lives of several families still struggling to get back on their feet 		
High Powered Rocketry Club, AIAA NC State Student Branch,	TKE Fraternity	
Jonathan Parker		
Direct Supervisor - Mechanical Design Engineer at Sierra Nevada Corporation		
(717) 740-3760		
Wes Ballew		
Senior Structural Engineer at Sierra Nevada Corporation		
(919) 606-7097		
Bradley French		
Mentor - Aeronautics and Ground Based Systems		
bradley.d.french@nasa.gov		
(513) 649-4390		
	 SOLIDWORKS Support Drifter (15 hrs/week) Jordan Electric Motors Inc. Sanford, NC Use SOLIDWORKS to create models, part drawings, assembly dramanufacturing Carrying out company program transfer from AutoCAD to SOLID deeper understanding of both programs Develop more knowledge of electric motor design and manufact working under the supervision of a senior engineer Summer Employment Intern (40 hrs/week) Easter Seals Tristate Cincinnati, OH Helped run Easterseals non-profit summer employment program clermont County, Ohio Small Iteam successfully oversaw 100 teens: organized entire progrinformation, tracked their progress, followed up with appointmer Worked with and documented sensitive information from State a personal files Haiti Volunteer Trip – June 2017 Went to Haiti with mission group to continue relief efforts from earthquake Design and construction of 5 small houses in a recovering cor changing the lives of several families still struggling to get back School / Club Involvement High Powered Rocketry Club, AIAA NC State Student Branch, parker@sncorp.com (919) 740-5780 Wes Ballew Senior Structural Engineer at Sierra Nevada Corporation wesley, ballew@sncorp.com (919) 606-7097 Bradley French Mentor - Aeronautics and Ground Based Systems 	

Websites/ Portfolios

- https://www.linkedin.com/in/craig-morton-482b45149/
- https://craigmorton.wordpress.ncsu.edu/