

Ryan Martin

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Education

University of Pennsylvania	Philadelphia, PA	May 2023
School of Engineering and Applied Science		
Bachelor of Science in Engineering in Mechanical Engineering and Applied Mechanics		GPA: 3.83/4.0
Georgetown Preparatory School	North Bethesda, MD	May 2019

Experience

Penn Electric Racing - Philadelphia, PA - <i>Powertrain Subsystem Lead</i>	Sep 2019 - Present
<ul style="list-style-type: none">Engineer and build formula-style electric racecars to compete in Formula SAE (FSAE) competitionsDesigned wheel hub, transmission, and driveshafts for all-new powertrain of REV7 to compete in 2022Presented REV7 powertrain design at FSAE Knowledge 2021, team placed 5th in Design and 2nd overallPlanned and tested cooling loop for motors and motor controllers of REV6's four-wheel drive systemPresented cooling and powertrain design of REV6 to SAE judges at FSAE Virtual 2020	
General Dynamics Information Technology - Rockville, MD - <i>Software Intern</i>	Jun 2020 - Aug 2020
<ul style="list-style-type: none">Developed Appian webservice for FDA Oncology Center of Excellence to create, view, edit, and delete records for meetings and teams of cancer researchersDeployed applications on Amazon EC2 instance to determine viability before moving to AppianTested capabilities of Draftable document comparison API to compare drug reports for FDAResearched the effects of mergers and acquisitions on the company's operations	
KID Museum - North Bethesda, MD - <i>Volunteer</i>	Sep 2018 - May 2019
<ul style="list-style-type: none">Engaged with children in hands-on projects involving basic manufacturing, circuits, and aerodynamics designed to foster their interest in STEM	
Georgetown University Memory Project - Washington, D.C. - <i>Researcher</i>	Jun 2018 - Aug 2018
<ul style="list-style-type: none">Contributed to project recording Georgetown's history of slavery, giving legacy status to descendantsPerformed research at Library of Congress and Georgetown's Booth Family Center for Special Collections to trace path of Gabe, a slave sold by Georgetown	

Student Leadership & Extracurriculars

WQHS Radio (Penn Student Radio) - <i>Live Room Director, Co-Host of "The ER"</i>	Sep 2019 - Present
<ul style="list-style-type: none">Reach out to artists and producers to organize live shows and interviews for WQHS Radio listenersHost virtual artist interviews and concert livestreams over Instagram during COVID-19 pandemicPlan playlists and run weekly radio show involving music, discussions, and callers	
Hoya Robotics - <i>President, Mechanical Lead</i>	Oct 2015 - May 2019
<ul style="list-style-type: none">Designed, programmed, and built robots to compete in VEX Maryland LeagueBuilt, tested, and hosted workshops for SeaGlide underwater robot with US Naval Engineers	
Georgetown Prep Quiz Bowl - <i>President</i>	Sep 2016 - May 2019
<ul style="list-style-type: none">Competed in and hosted National Academic Quiz Tournaments' (NAQT) events	

Skills & Interests

Skills: SolidWorks, 3D Printing, Laser Cutting, FEA, Arduino

Software: MATLAB, Java, SQL, Apache Maven, HTML/CSS, Appian, MS Word, Excel, PowerPoint

Interests: Tenor Saxophone, Alpine Skiing, Mahjong