



Charlie Nitschelm

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Objective:	Find an internship or research position pertaining to materials science or aerospace engineering	
Education:	University of New Hampshire – College of Engineering and Physical Sciences GPA: 3.84/4.0 Honors Program B.S, Mechanical Engineering Physics Minor	Aug. 2016 – May 2020, anticipated
Tech Skills:	Microsoft Suite Solidworks Python MATLAB Lean & VSM GD&T Machining	
Experience:	UNH Institute for the Study of Earth, Oceans, and Space <i>Researcher</i> May 2017 – August 2017 <ul style="list-style-type: none">Used Python to conduct a systematic search of the COMPTEL data for evidence of polarization from solar flaresOrganized necessary data sets and developed tools that will be needed for analysisUsing the COMPTEL field-of-view, determined the number of source and background counts for that event, and then used simulations to estimate the polarization sensitivity for that eventCreated a systematic analysis of all gamma ray bursts that took place within the COMPTEL field-of-view Shoal Interactive, LLC <i>Business and Marketing Intern</i> January 2017 – present <ul style="list-style-type: none">Attend weekly meetings to decide business and product decisions with the teamAssist with the applications user interface and administrative writingLead major marketing campaigns to neighboring towns for the release of our Coupler's alpha	
Relevant Orgs:	UNH Students for the Exploration and Development of Space <i>Co-Founder, CTO, Head of Rocket Propulsion</i> Mar. 2017 – present <ul style="list-style-type: none">Lead overall managerial duties of the organization including running all meetings and overseeing the goals of the organizationFoster a learning environment for all and manage all outreach and networking eventsHead the design and manufacturing for the rocket propulsion team, which includes a two-stage solid rocket boosterManage all tech leads to create a high-altitude rocket to participate in the University Student Rocketry Competition in September. 2018 UNH LunaCats <i>Electrical Team Member</i> Sept. 2016 – May 2017 <ul style="list-style-type: none">Designed, fabricated and coded a robotic excavator to compete in NASA's Robotics Mining CompetitionAssembled and tested the electronics box so the rover can successfully compete at Kennedy Space Center for the 2017 NASA sponsored Robotics Mining Competition UNH Precision Racing <i>Secretary, Powertrain Engineer</i> Sept. 2016 – May 2017 <ul style="list-style-type: none">Maintained all relations to the college and the surrounding community by providing outreach and an end-of-year banquet to all our supportersAssisted the design of the intake system and catch cans STEMbassadors <i>Member Lead in the Robotics Activity</i> Sept. 2016 – present <ul style="list-style-type: none">Volunteer in the New Hampshire area to inspire the next generation of engineers and problem solversRun the World of Robotics activity where students can experiment with gear ratios and different wheel choices	
Other Skills:	Project Management Organizational Leadership Creativity and Problem-Solving Communication	