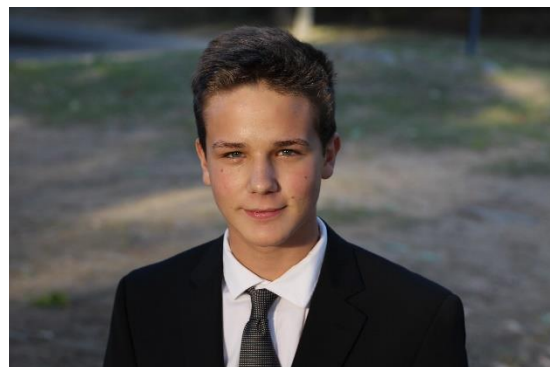


Personal Information

Name: Charlie Nitschelm
 Date of Birth: April 30th 1998
 Place of Birth: Portsmouth, NH USA
 Citizenship: United States of America



Contact Information

School Address: GSS Box 12411, Durham NH, 03824 USA
 Permanent Address: 384 Peverly Hill Road,
 Portsmouth NH, 03801 USA
 Cell phone: +1 (603) 923-9079
 Email Address: cjn1012@wildcats.unh.edu

Education

University of New Hampshire
 B.S. in Mechanical Engineering
 Physics Minor
 Honors Program
 Cumulative GPA: 3.92
 Expected Graduation: May 2020

Related Course Work

Chemical Principles for Engineers
 Differential Equation with Linear Algebra
 Multi-Dimensional Calculus
 Physics 1 – Mechanics
 Physics 2 – Electricity and Magnetism

Statics
 Thermodynamics
 Introduction to Material Science
 Astronomy

Experiences

Research Experience

UNH Institute for the Study of Earth, Oceans, and Space

May 2017 – August 2017

Research with Dr. Mark McConnell

- Used Python to conduct a systematic search of the COMPTEL data for evidence of polarization from solar flares
- Organized necessary data sets and developed tools that were needed for analysis
- Using 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 event
- Created a systematic analysis of all gamma ray bursts that took place within the COMPTEL field-of-view

Work Experience

Shoal Interactive, LLC

January 2017 – present

Business and Marketing Intern

- Attend weekly meetings to decide business and product decisions with the team
- Assist with the applications user interface and administrative writing
- Lead major marketing campaigns to neighboring towns for the release of our Coupler's alpha

Engineering Experience

UNH Students for the Exploration and Development of Space

March 2017 – present

Co-Founder, CTO, Head of Rocket Propulsion

- Lead overall managerial duties of the organization including running all meetings and overseeing the goals of the organization
- Foster a learning environment for all and manage all outreach and networking events
- Head the design and manufacturing for the rocket propulsion team, which includes a two-stage solid rocket booster
- Manage all tech leads to create a high-altitude rocket to participate in the University Student Rocketry Competition in September

UNH LunaCats

Sept. 2016 – May 2017

Electrical Team Member

- Designed, fabricated and coded a robotic excavator to compete in NASA's Robotics Mining Competition
- Assembled 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

Sept. 2016 – May 2017

Secretary, Powertrain Engineer

- Maintained all relations with the college and the surrounding community by providing outreach and an end-of-year banquet to all our supporters
- Assisted with the design of the intake system and catch cans

Portsmouth High School Wire Clippers – FIRST Robotics

April 2015 – May 2016

Team Captain, Mechanical Lead

- Led the overall design of our robot to compete in the 2016 FIRST competition
- Managed all outreach events

Other Experience

STEMbassadors

Sept. 2016 – present

Member Lead in the Robotics Activity

- Volunteer in the New Hampshire area to inspire the next generation of engineers and problem solvers
- Run the World of Robotics activity where students can experiment with gear ratios and different wheel choices

Not Too Sharp

Sept. 2016 – present

Bass singer and Beatbox in a Cappella group

- Attend 6 hours of rehearsals every week to prepare and perfect our repertoire
- Travel to various performances including performing the national anthem for President Obama

Camp Mi-Te-Na

June 2015 – August 2015

Overnight Cabin Counselor and Lifeguard

- Supported the development of young campers ranging in ages from 7-15 years old
- Protected campers swimming in Halfmoon Lake as a certified lifeguard

Skills

Technical Skills

Microsoft Suite | Solidworks | Python | MATLAB

Other Skills:

Project Management | Organizational Leadership | Creativity and Problem-Solving | Communication