

Alexander Brown

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Skills

- Proficient in multiple computer programming languages:
 - C++
 - Python
 - Java
- Proficient in Spanish language
- Able to design and create custom circuit boards
- Proven leadership skills
- Experienced in high-power rocketry
- Excel in STEM areas, such as Calculus, Chemistry, and Physics
- Experience in competitive robotics
- Competency in using machine tools, e.g. manual mill, 3D printer
- Avid skier and tennis player

Experience

SEPTEMBER 2018 - PRESENT

NASA Student Launch, Charlottesville, VA - *Currently Team Lead*

- Competing in NASA Student Launch at high school level as part of Boy Scout Troop 17, Charlottesville, VA
- Qualified for NASA Student Launch by placing in top 25 in national American Rocketry Challenge in 2018 and again in 2021
- Currently the team leader of our program
- Led the design and build of two electronic payloads
- Designed several circuit boards
- Wrote software in three different languages
- Designed and flew two rockets containing the scientific payload
- Co-authored seven required reports (in excess of 40 pages each) and delivered numerous powerpoint presentations to NASA

SEPTEMBER 2013 - Present

Boy Scouts of America, Charlottesville, VA

- Involved in boy scouting from second grade to present
- Currently a Life Scout; expect to attain Eagle rank in near future
- Have served in various leadership capacities, including senior patrol, leading boys ages 11-18

- Participated in over 30 hours of community service

NOVEMBER 2021 - JULY 2022

Virginia Space Coast Scholars, Wallops Island, VA

- Accepted into 2021-2022 program after a competitive application process and letter of recommendation
- Completed a semester-long course involving on-line studies and preparing several research papers
- Based on school-year performance, was accepted into a week-long in-person program at NASA's Wallops Flight Facility
- Participated in designing and presenting to NASA officials possible experiment to carry on board a future sounding rocket

Education

AUGUST 2018 - Present

St. Anne's-Belfield School, Charlottesville, VA

- Current weighted GPA : 4.31 (High Honors); honors and AP courses
- Expected graduation : June 2024

Awards

- In 2019, our NASA Student Launch team won four out of six possible first-place awards at NASA's national competition in Huntsville, Alabama
- In 2021, rocket team placed 15th in The American Rocketry Challenge (TARC), thus qualifying the team for the NASA Student Launch Program last season (2021-2022) and this season (2022-2023)
- Currently a member of school varsity tennis team