

Natalie Bretton

- 8 year FIRST Robotics participant
- 3 years as FIRST Robotics Competition participant - currently the Mechanical Fabrication Lead and Pit Crew Lead

Natalie G. Bretton
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EDUCATION

Math Background -

Have generally tracked 2 years ahead of TAG students in math, taking Algebra 1 in 5th grade and AP Calculus BC in 9th grade. Received all A's in all my classes each year.

Menchville High School Sophomore - Rank 1, 4.5 GPA, Class of 2021

Have completed complete all high school math requirements and then some, including AP Calculus BC and AP Statistics. Currently taking, or have completed, AP Computer Science Principles, AP Physics 1, AP Biology, AP World History, AP Human Geography, Honors Spanish III & Basic Technical Drawing. All A's every year.

LEADERSHIP EXPERIENCE & ORGANIZATIONS

FRC Team 2363 Triple Helix Robotics - Mechanical Fabrication & Pit Lead September 2017 - Present

Responsible for mechanical design and building of the robot, training mechanical sub-team members, and debugging robot mechanical problems under pressure as the pit crew lead during competitions. Experience using machine shop tools, including mill, lathe, drill press, mitre saw, band saw, hand drills, soldering, belt sanders, dremels, angle grinders, etc. For 2019, we won the NOVA competition and were semi-finalists at the HRVA competition. In addition, we have received the Engineering Inspiration Award (FIRST's 2nd highest honor) and the Creativity Award. Triple Helix has advanced to the FIRST World Championship the previous 5 years!

Virginia Space Coast Scholars Participant - December 2018 - March 2019

The Virginia Space Coast Scholars (VSCS) program is a dynamic, informal online learning experience for high school sophomores. With a focus on scientific exploration, students will be introduced to the science, engineering, and technology concepts that are integral to earth and space-based missions launched or conducted from Virginia's Space Coast on the Eastern Shore. Students who successfully complete the online course may be invited to attend a seven day, residential summer academy at Wallops Flight Facility.

National Spanish Honor Society Member — 2018 - Present

National Junior Honor Society Member — 2017 - Present

Triple Helix Robotics Camp Counselor — July /August 2015, 2016

One of several camp counselors teaching 5th-8th graders LEGO Mindstorm and VEX robotic programming.

REFERENCES

HONORS & AWARDS

MHS Top Ranked Student for 9th & 10th grade
President's Education Award for Outstanding Academic Excellence (every year)
8th grade Science, Spanish, PE & Marine Science Awards
National Junior Honor Society
2nd place in BTW MS Science Fair for IoT Environment Project
1st Place Rotary Club special award at City Science Fair for IoT Environment Project
Jewish Community Center Holocaust Writing Award
VA House of Delegates Certificate of Distinction

VOLUNTEERING & STEM

Weekly Volunteering at Bluebird Gap Farm, 2016 - present
Summer Volunteer at BTW Middle School for Marine Science Tank Maintenance, 2014 - 2018
Fence Building for Bluebird Gap Farm
Newport News Landfill Prototyping
Counselor for Triple Helix RoboCamp, 2015 & 2016
Rumble in the Roads Volunteer
CNU STEM day Volunteer
NNPS SAGE Expo Volunteer
NAS Oceana Air Show Demo
Hampton Roads Mini Maker Faire Demo
CHROME Club demo
Lewis Ginter Gardens demo
NN Fall Festival of Folklife Outreach

ATHLETICS & INTERESTS

8 Years of Competitive Gymnastics
Recreational Soccer
Running
Drawing
Special Effect Makeup Artistry
Building & Creating
Guitar
Piano

Brandon Traner, AP Calculus BC and AP Statistics Teacher, 275 Menchville Rd,
Newport News, VA, 23602 Phone: 757-886-7722, ext 45123

Michael Shumate, AP Computer Science & Marketing Teacher, 275 Menchville Rd,
Newport News, VA, 23602 Phone: 757-886-7722, ext 45301

Wardell Boyle, Technology Education Teacher, 275 Menchville Rd, Newport News,
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