



Antoine Gagne



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Skills

Communication



Collaboration



Work Ethic



Leadership



Time Management



Computer Skills

Microsoft Office



Autodesk Inventor



CATIA V5



Fusion 360



Java



C/C++



Languages

English and French

Native Speaker

Chinese

4 Years Experience

Objective

To find new opportunities to further my own abilities and make a meaningful impact in the world.

Education

2017 – Dayton Regional STEM School (DRSS)

2022 Date of Graduation: 2022

GPA: 4.0/4.0

Relevant Courses: Maker Space Assistant, Material Science

Experience

Jun. 2022 – Heroux Devtek, Springfield, Ohio

Aug. 2022 Intern

Jeremey Louderback, Supervisor

- Worked on Visual Work Instruction improvement project
- Designed work holding fixture, wrote NC program, and operated CNC mill for process improvement project.
- Worked on F-35, F-18, F-15, C-130, and B-1B programs.

Jun. 2021 – Gaming Research Integration for Learning Lab, Kettering, Ohio

Jul. 2021 Wright Scholar Intern

Kyle Bucklew, Manager

- Worked with Microsoft HoloLens to develop AR Maintenance application
- Used Unity and Vuforia to run object recognition on HoloLens
- Presented and Delivered product to customer

May 2021 – First Tech Challenge (Team 4537), Dayton, Ohio

May 2022 Team Captain

Kerry Hicks, Coach

- Lead weekly team meetings.
- Organize weekly assignments for team members.
- Inform team members of upcoming practices.

Honors and Awards

2022 DRSS Class of 2022 Valedictorian

2021 First Tech Challenge, Team Captain

2020 National Honor Society, Member

2020 First Tech Challenge, First Officer

2020 National Chinese Honor Society, Member

2019 First Tech Challenge, Lead Programmer

Experiences

Community Service

- **Dayton Dragons Robotics Outreach**
 - Showed off our robots at a Dayton Dragons game, and also spread the word about FIRST Tech Challenge.
- **Face Shield Manufacturing**
 - At the beginning of the pandemic, my robotics team and I helped out one of our local sponsors manufacture 10000 face shields to be sent out to hospitals. We used 4 laser cutters to manufacture the face shields, and over 500 hours was put in total over the 3 weeks.
- **FLL Competition Volunteering**
 - Helped out at a local FIRST Lego League competition over two years. The first year I worked as a score runner to ensure that match scores would be handed to judges. The second year, I was in charge of ensuring the Team Pit area was under control and setup so children could focus on the FLL Robotics.
- **Dayton Air Show Robotics Outreach**
 - Setup and presented a FIRST booth at the Dayton Air Show two years in a row. We had our robots out for people to see what we do in FTC, and also got to drive one of our bigger robots into a C-17 cargo plane.
- **Hamvention Robotics Outreach**
 - Setup a FIRST booth at the Dayton Hamvention and spread the word of FIRST. Learned about Ham Radio.

Clubs and Activities

- **First Tech Challenge Robotics**
 - Started off as an engineer on FTC Team 4537 in my freshman year. I worked mainly with Autodesk Inventor to CAD parts for our robot, and also designed various parts to be Laser Cut and 3D printed. At the end of the season, I taught myself to program the robot using Java. The next season I became the team's lead programmer, and I used my newly obtained programming skills to improve our robot's code and to make driving the robot easier for the driver by programming several automated driver aids. In my Junior year, I was voted as the First Officer for my team. In this role, I continued my duties as lead programmer, but I also organized team meetings and sent out information about upcoming events to team members. In my senior year, I was voted Team Captain, fulfilling much of the same duties I did in my Junior year.
- **Technology Student Association 2021 Ohio State CAD Champion**
 - Participated in TSA CAD Engineering Competition, placed 1st in Ohio for competition, went to national TSA Competition to participate in CAD Engineering.
- **Two-Time FIRST Tech Challenge Dean's List Semi-Finalist**
 - In my sophomore and junior year of high school, I was nominated by my FIRST Tech Challenge robotics team to be a candidate for the Dean's List Award. The Dean's List Award was created in an effort to recognize the leadership and dedication of FIRST's most outstanding secondary school students. I managed to make it into the semi-finals both years.