

# GRAHAM FLETCHER WELLS

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## Education

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- Georgia Institute of Technology** — Atlanta, GA *August 2019 – May 2022*  
• B.S. Computer Science with Threads in Intelligence and Media *GPA: 3.9/4.0*
- The Ohio State University** — Columbus, OH *August 2018 – May 2019*  
• FEH Robotics Scholarship, Maximus Scholarship recipient, Honors Program member. *GPA: 3.9/4.0*

## Work & Experience

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- Leidos** — Dayton, OH *May 2019 – August 2019*  
*Computer Science Intern*  
• Automated test cases for drone surveillance application. Designed development workflow for structuring and organizing maintainable test cases. Voluntarily documented all work and findings to assist future employees.
- Ohio State Department of Agriculture** — Columbus, OH *May 2019 – August 2019*  
*Computer Science Intern*  
• Refactored MATLAB application for composing routes for autonomous tractors. Added GUI and expanded functionality to include drawing complex field shapes and obstacle avoidance. Implemented every possible feature within the project scope.  
• Used Java, Python, and Bash to remotely collect crop data from a sensor attached to a drone.  
• Automated new binary message generator in CAN system of a tractor to eliminate bottleneck and accelerate development.

## Projects

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- Omni-Directional Robot Project** — 3-wheeled robot that moves in any direction without rotating. *January 2019 – April 2019*  
• Worked with four-person team to design, build, program, and document robot for 2019 FEH Robotics Competition.  
• Reimplemented microcontroller libraries in OpenGL to design competition course simulation and visualization tool. Tool drastically expedited testing and development. Ran the simulation on the robot to predict its location and improve navigation accuracy. Visualized the position, rotation, and state of the robot on its screen to enhance debugging.  
• Won 1st place for Best Engineered Robot and 3rd for Most Consistent among 80+ teams.
- Swift Projects** — Random Name Generator, Call Your Human, Cellular Automata Screen Savers *June 2020 – September 2020*  
• Created iOS applications to solve common problems such as reminding you to call your significant other or drawing straws.  
• Designed MacOS screen savers that display variants of Conway's Game of Life.

## Leadership & Activities

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- **AI Club Secretary** (*November 2018 – May 2019*): Created weekly newsletter; monitored and updated club website; discussed plans during officer meetings and took notes; helped collaborate with other clubs to host events and socials.
- **Eagle Scout** (*July 2017*): Engineered outdoor classroom for Mariemont High School.
- **Current**: iOS Development Club, Android Development Club, Georgia Tech Delta Chi, Krav Maga.
- **Previous**: Judo Club; black belt, assistant instructor, and tournament competitor in Taekwondo.

## Skills

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- **Dev. Languages**: Java, C/C++, C#, MATLAB, HTML, Python, JavaScript, Swift, SQL, React, PHP, Bash, Assembly, UML, OpenGL
- **Software**: SolidWorks, Blender 3D, Unity, Simulink, UNIX, Adobe Photoshop, Git, LabVIEW, Microsoft Office Suite
- **Communication**: English (native), Latin (advanced), technical reports & drawings, presentations, Agile Development