

# John C Butterfield

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## OBJECTIVE

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Bachelor of Science in Aerospace Engineering degree with a minor in Computer Science candidate with strong creative thinking, problem solving, and communication.

## EDUCATION

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**Georgia Institute of Technology, Fourth Year**

Atlanta, Georgia

**B.S. in Aerospace Engineering, Computer Science Minor**

May 2018

- Cumulative GPA: 4.00/4.00
- Georgia Institute of Technology Dean's List

**Civil Aviation Research**

January – May 2016

- Contributed toward an airport taxi queueing model to predict fuel savings when utilizing green taxiing
- Developed a queueing model in Simulink of a commercial airport

**RANGE Cube Satellite Research**

August 2016 – May 2017

- Working on the development and integration of a cube-sat based Laser Ranging system
- Researching LIDAR ranging in orbit and laser communication between cube-satellites
- Wrote python scripts to automate hundreds of test cases and collect oscilloscope data
- Developed test documents detailing the procedures required for Laser Ranging system integration
- Helped develop C code to communicate between the laser module and the on-board computer
- *Technologies used:* Python, Matlab, LIDAR, C, Inventor CAD

## EXPERIENCE

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**Software Development Engineer Intern, Amazon**

May – August 2017

- Designed and developed a prototype WhatsApp chat bot for Amazon Easy Ship
- Allows sellers to schedule package deliveries directly from WhatsApp by talking with the bot
- Leveraged parallel computing to maximize efficiency and scaling
- Wrote backend adapters for calling AWS services
- *Technologies used:* Java, Javascript, HTML, Selenium, REST, Spring, AWS

**Software Engineer Intern, PTX Tech**

May – August 2015, February – August 2016

- Built backend python scripts to manage and parse data
- Created powerful internal APIs and full stack applications to automate workload and improve the efficiency of the company, saving hundreds of hours of manual work
- Constructed and managed tables in MySQL for our production database
- Integrated database tables with the applications and backend python code
- *Technologies used:* Python, MySQL, Qt Designer, AWS, C++

## PROJECTS

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**Dolphin Updater Application**

Summer 2016

- Written in python to update to the newest version of Dolphin Emulator (a GameCube/Wii emulator) with ease
- Released on GitHub as a standalone windows application with hundreds of downloads

## SKILLS

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- *Platforms:* Solidworks, Simulink, Inventor CAD, AWS, Linux
- *Languages:* Python, Java, Matlab, SQL, LUA, C++, C
- *Relevant Coursework:* System Controls, Data Structures and Algorithms, Artificial Intelligence
- *Current Coursework:* Jet Propulsion, Aeroelasticity
- 4 years of German instruction