**Campus Address:**

792 Techwood Dr. NW

Atlanta, GA, 30332

**Emanuel Solis**

(706)-580-6499 [esolis8@gatech.edu](mailto:esolis8@gatech.edu) <https://emanuel-sol.github.io/resume/>

U.S. Citizen

**Permanent Address:**

1090 Plantation Creek Rd

Fortson, GA, 31808

***Objective:*** *Third-year Computer Science major at the Georgia Institute of Technology seeking to leverage my technical experience to benefit your company.*

**GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing Atlanta, Georgia Bachelor of Science in Computer Science** *June 2016 - May 2020 (Expected)*

**GPA: 3.5**

**Coursework & Projects**

**Georgia Institute of Technology Atlanta, Georgia**

*Data Structures and Algorithms August 2018-December 2018*

* Gained an understanding of fundamental and important data structures and algorithms in the context of object-oriented programming
* Examined how these data structures and algorithms are constituted and work, when to use them, how to code them and their algorithm complexity
* Wrote, tested, and debugged moderate size (500-1000 lines of code) programs that implemented the aforementioned concepts

**Lysande Atlanta, Georgia**

*Co-Founder August 2018-December 2018*

* Identified a market gap in the field of professional photography by interviewing and surveying roughly 200 amateur and professional photographers
* Created a smartphone attachment concept that functions as an evolving camera system through several iterations of user focused design testing

**Georgia Tech Research Institute Atlanta, Georgia**

*Student Research Assistant May 2018-July 2018*

* Modified the firmware to a Pixhawk microcontroller to take sensor data from a PSoC development board that sends custom commands over serial communication protocol.
* Supported the development of a LiDAR-based counter UAS system.
* Successfully tested both custom firmware and RC compatibility within hardware-in-the-loop simulation.
* Edited QGroundControl software to enable RC compatibility with the custom flight mode that was created.
* Documented experiences for future employees.

**Independent Programming Project Atlanta, Georgia**

*Battle for the Rebellion! August 2017-December 2017*

* Programmed a fully functional space-invaders style computer game using the Pygame library that increases with difficulty and has customizable settings, a simple but effective UI and stats tracking.
* Utilized professional programming techniques such as refactoring, rapid prototyping, and clean coding.

**Georgia Institute of Technology Atlanta, Georgia**

*Introduction to Technical Drawings and Solidworks January 2017-May 2017*

* Manufactured a 3D printed prototype helicopter design by using Solidworks CAD software to create parts and then covert them into printable files.
* Interpreted technical drawings by creating a bicycle, robotic arm, DC-3 Delta passenger plane, and a teapot according to the design specifications provided in the technical drawings.

**Skills**

**Software:** Java (proficient), Python (advanced), HTML/CSS (advanced), Solidworks (advanced), Git (basic), Swift (basic)