

Federico Naranjo

Electrical Engineering – Minor in Computer Science

Experience

Software Developer Intern | CaseWare Inc Sept. 2016 – Aug. 2017

- Designed and built an automated testing framework that greatly reduced regression testing effort by finding defects early in the development cycle.
- Gained proficiency and practical experience with **C#, Selenium, Gherkin**, and **Visual Studio** IDE, and with creating and maintaining large projects.
- Documented entire framework using **XML** documentation and a **Markdown** guide to allow project to be understood and maintained by the team.

Ground Station Software Developer | CU Inspace Sept. 2017 – Present

- Designing and implementing ground station software in order to receive and view telemetry data from our rocket in real-time during the Intercollegiate Rocket Engineering Competition (IREC).
- Using **Electron** API to develop a cross-platform application that can parse and display telemetry data such as temperature and air pressure as it is received and overlay the GPS location/trajectory on top of a map view.

Teaching Assistant | Carleton University Sept. 2017 – Present

- Helping students understand and master basic programming (C) and software development concepts during weekly lab sessions.

Personal Projects

Locations iOS App June 2016 – Present

- Developed an iOS application which allows the users to navigate a map and save various locations and view them later, to learn new skills and familiarize myself with the iOS development tools.
- Using Apple frameworks such as **MapKit** and **CoreData** with user-oriented design principles to create an intuitive and responsive user interface.
- Using this experience to organize a workshop teaching others how to create a similar app and using iOS app development tools with Github.

Verbose Wall Clock Sept. 2017 – Present

- Designing and building hardware and software for a wall-mounted clock that shows the time by using LEDs to illuminate words, to challenge myself and apply the concepts learned in school.
- Will be using **Arduino** microcontroller to control time and automatically contact servers to synchronize the clock and automatically adjust time.

Communication and Leadership Skills

- Strong verbal/non-verbal, presentation, team-building, and active listening skills from work experience, school projects, and extra-curriculars.
- Experienced with presenting and explaining detailed and technical concepts to a non-technical audience in a concise and professional format.
- Fluent in both Spanish and English, with an intermediate level in French.

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Education

Carleton University

- B.Eng. Electrical – CGPA 10/12
Third year standing | Expected 2020

Practical Skills

- **Programming:**
C#, Swift, Java, C/C++, MATLAB, Ruby on Rails, HTML, CSS, JSON
- **Software Tools:**
Visual Studio, Xcode, Bash, TFS, Selenium, SIMULINK, PSpice, Ansys, Git, xUnit, MSTest
- **Other:**
Agile/Scrum, testing automation, debugging, documentation, Affinity Designer, Pixelmator

Extra-curriculars

- **IEEE Carleton Student Branch:**
Computer Society Chair, helping to organize competitions / workshops designed to help students learn new skills.
- **CUHacking: Logistics Director**, Organizing logistics and assisting with planning of hackathon of over 400 students.
- **CU Photography Club: Member**, Participating in the monthly collections and photo-walks.

Interests

- Photography, reading, soccer, graphic design, building things