

# Federico Naranjo

Electrical Engineering – Minor in Computer Science

Empathy  
Teamwork  
Communication

## 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 for IREC competition.
- Developing Linux 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.
- Using Apple frameworks such as **MapKit** and **CoreData** with Apple's design principles (HIG) 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.

### Light and Art: The Gather-Ring June 2016 – Present

- Designing a tracking system to be installed on the Gather-Ring art exhibit.
- Tracking visitors with ultrasonic sensors and **Arduino** microcontroller to control the lights with patterns to create an interactive community space.  
*link: carleton.ca/our-stories/story/gather-ring/*

## 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 | Graduation: 2020*

## Practical Skills

- **Programming:**  
C#, Swift, Java, C/C++, MATLAB, Ruby / Ruby-on-Rails, HTML, CSS
- **Software Tools:**  
Visual Studio, Xcode, Selenium, Bash, TFS, Git, Eclipse, xUnit, MSTest, SIMULINK, PSpice, Ansys
- **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.