

# Juan C. Torres

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## EDUCATION

### **Dartmouth College**, Hanover, NH, USA

#### Bachelor of Arts (B.A.) in Computer Science

Sep 2013 – Jun 2017

- Relevant major courses: Introduction to Programming and Computation, Problem Solving via Object-Oriented Programming, Discrete Mathematics in Computer Science, Software Design and Implementation, Computer Architecture, Risks of the Internet of Things to society.
- Other relevant courses taken: Introduction to Calculus, Calculus of Functions of One and Several Variables, Linear Algebra with Applications.
- Courses in progress and planned: (Winter 2016): Compilers, Machine Learning. (Spring 2016): Algorithms, Smartphone Programming.

### **University of Copenhagen**, Copenhagen, Denmark

#### Exchange program in Sociology

Aug 2015 – Jan 2016

### **Jorge Robledo Institute**, Medellin, Colombia

#### Primary and Secondary Education

Jan 1999 – Nov 2011

- Class rank: 1/65
- Finalist in state-wide Chemistry and Physics and Mathematics olympiads.

## RELEVANT WORK EXPERIENCE

### **Dartmouth College Computer Science Department**, Hanover, NH, USA

#### Section leader for Introduction to Programming and Computation

Mar 2015 – Jun 2015

#### Section leader for Problem Solving via Object-Oriented Programming

Jan 2016 – Mar 2016

- In weekly meetings, help students conceptually understand the course material, and cement their knowledge by leading them through a series of programming exercises.
- Grade students' coursework and exams.
- Help students improve, debug, and fix their code for course assignments in scheduled weekly help sessions.

## OTHER WORK EXPERIENCE

### **Dartmouth College Spanish Department**, Hanover, NH, USA

#### Apprentice Teacher

Sep 2013 – Mar 2015

- Met several times a week with students to challenge them orally in Spanish to improve their language proficiency.
- Graded student performance in said meetings and assisted Professor in their evaluation of individual students.

## PROJECTS

### **Tiny Search Engine.** C, curl library

- Created during the course of a term of 'Software design and implementation' a working model of a basic search engine that would crawl, index, and let the user query its database for particular data.

### **Design for Y-86 Processor.** Logisim (tool for designing and testing digital logic circuits)

- Created during one term of 'Computer Architecture' a working simulation of a processor that could execute programs written in Y-86 (subset of X-86 assembly).

### **Compiler for C subset.** C, flex, bison

- Implement during the course of a term a basic compiler for a subset of the C language for 'Compilers' class.

### **Interactive Office Directory.** Python, shell script, interface running on Raspberry Pi.

- Implemented a server application allowing visitors to consult the availability of particular workers in an office. If available, directed them to their office. Otherwise, allowed the user to leave a message.

## CAMPUS ACTIVITIES

### **Dartmouth Hacker Club**, Dartmouth College

#### Member

Jun 2015 – Aug 2015

- Helped organize the college's second annual hackaton.

### **World Outlook Undergraduate Journal of International Affairs**, Dartmouth College

#### Executive Editor, Web manager

Mar 2014 – Present

- Help design and maintain organization's web presence, arrange journal's cover and create other graphic materials.
- Help in the selection of papers to be published. Lead editing groups in editing and proofreading selected papers.

## SKILLS

Programming Experience: Advanced Python, advanced Java, intermediate C, intermediate shell script, beginner C++, Acquainted with Y86 (reduced-instruction subset of X86 assembly).

Other skills and tools:  $\text{\LaTeX}$ , Flex and Bison (tools for creating a parser for different file formats), Logisim (tool for designing and testing digital logic circuits), Adobe Illustrator, photography.

## LANGUAGES

Native Spanish, intermediate French (speaking, reading, writing), beginner Latin (reading, writing).

[CV compiled on 2016-02-02.]