

ROBERT F. CARANGELO III

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EDUCATION

Dartmouth College, Hanover, NH

Bachelor of Engineering, focus in Computer Engineering

Expected March, 2022

Bachelor of Arts, Engineering Sciences

Expected June, 2021

Relevant Coursework: Software Design and Implementation, Problem Solving via Object Oriented Programming, Digital Electronics, Control Theory, Distributed Systems and Fields, and Linear Algebra with Applications

GPA: 3.85/4 Honors: Tau Beta Pi, College Honor List

Language Study Abroad, Barcelona, Spain

January 2019-March 2019

10-week homestay with family in Barcelona while taking courses at the University of Barcelona

TECHNICAL SKILLS

Programming Languages: C, C++, VHDL, Python, Matlab, and Java

Hardware: Oscilloscope, Raspberry Pi, and Function Generator

Other Relevant Skills: UNIX, Valgrind, GDB, Microsoft Excel, Microsoft PowerPoint and SolidWorks

WORK EXPERIENCE

Laboratory for Intelligent Integrated Networks of Engineering Systems, Hanover, NH

June 2020-August 2020

Research Intern

- Designed and built demonstration of a home automation system for the use of researchers at the Thayer School of Engineering to test home automation solutions
- Wrote and integrated python scripts into the Home Assistant operating system to control various sensors, actuators, a circuit breaker panel and a solar panel from a Raspberry Pi board

Nomura Holding America Inc., New York, NY

January 2020-March 2020

Investment Banking Analyst Intern

- Generated and presented ideas at client meetings alongside senior bankers
- Supported transactions and client presentations with financial, structural and business risk analysis

Dartbike Rentals, Hanover, NH

May 2018-present

Owner

- Equity investor in student-run business that rents bicycles to students and coordinator of bike drop off and pick up

PROJECT EXPERIENCE

Order Matching Engine, Personal Project

November 2020-present

- Designing and implementing an order book with C++ programming that compiles market and limit trade orders and executes trades when appropriate
- Building a client program that places trade orders, and a server that compiles these orders using the matching engine

Tiny Search Engine, Team Project

October 2020-November 2020

- Designed and implemented a web crawler, indexer, and querier modules with C programming that work together in a UNIX environment to search internet pages for the most relevant words to a user's search request
- Building robust testing programs that ensure the search engine functions properly and does not compromise memory

Motion Tracker, Digital Circuits Final Project

May 2019

- Built a motion sensing device, with a partner, that tracks the distance and velocity of an object and outputs to VGA display
- Programmed a BASYS 3 controller using VHDL and analyzed electric signals using an oscilloscope

LEADERSHIP & ACTIVITIES

D-Trade, Hanover, NH

January 2018-present

Co-President

- Developing a functional virtual trading platform that utilizes the Black-Scholes Model to price options of simulated equities
- Employ a range of basic trading strategies and hedges in an open market simulation with peers to accumulate the highest return on investment

Dartmouth Club Baseball, Hanover, NH

September 2017-present

Player

- Led the team to first ever playoff win as the starting second baseman while demonstrating sportsmanship and dedication

SKILLS & INTERESTS

Language: Proficient in Spanish

Interests: Baseball, skiing, Gamma Delta Chi Fraternity (treasurer), reading and golf