

Youssef ACHY

617-992-4457 achyx001@umn.edu Minneapolis, MN

Objective

Seeking a full-time position with an engineering company in which I could invest my technical skills as well as skills in problem solving, communication, teamwork and critical thinking.

Education

Bachelor of Electrical Engineering, Expected May 2019

College of Science and Engineering, University of Minnesota-Twin Cities

Coursework includes: Linear Circuits, Logic Design, Microcontrollers, Transmission Lines, Linear Control Systems, Analog Electronics, Statistical Methods, Embedded Systems Design, Digital Signal Processing, Communication Systems, Data Structures and Algorithms.

Projects

Microcontroller defense system: Set up a system that detects an object in a 4x4 grid and can track position, aim, and shoot. It was done using a PIC24, servos, and a piezo buzzer.

Localization in GPS denied environments using Bluetooth: Localize Bluetooth devices within a space by setting up anchor nodes, collecting RSSI data, calibrating, and inputting the data into Multidimensional Scaling and Compressive Sensing Algorithm.

Predictive modelling using causal discovery and cross validation: Use causal discovery along with cross validation to better choose parameters that would lead to more accurate predictions. The simulations were done with Tetrad (Carnegie Mellon University Java App) through a Python wrapper.

Software and Language Skills

Computer Languages: C, C++, Python, R

Programs: Microsoft Word, Excel, PowerPoint, Photoshop, Altium Design

Languages: English, French, Arabic

Experience

SUMMER 2018:

Internship at **KEO International Consultants**

- Participated with electrical engineers in on-site design checks for a hospital project in Kuwait
- Learned about the electrical design and contract clauses for a multi-year project

SUMMER 2017:

Internship at **Solar Eco Systems Morocco**

- Observed and understood the production process
 - Worked closely with the engineers on the quality control of the manufactured products
-

Community Engagement

President of the French Circle at the University of Minnesota from Fall 2018 to Spring 2019.

Volunteered with The Alliance Française Minneapolis and The French American Chamber of Commerce in Minneapolis from September 2018 to May 2019.

President of the Minority Association of Engineers & Scientists starting from Fall 2015 through Spring 2016 in which I led several talks with admissions representatives from colleges such as MIT and Boston University.

Silver award winner for participating in a dozen volunteering activities with the community service department at Bunker Hill Community College from September 2014 to December 2015.