

Hirad Tabatabaei

RESEARCH INTERESTS	Signal Processing, Machine Learning, Robotics, Computer Vision, Computer Networks, Circuits and Electronics	
EDUCATION	University of Massachusetts Amherst	Expected graduation: May 2021
	<i>Department of Electrical and Computer Engineering</i>	
	<ul style="list-style-type: none">• BSc in Electrical Engineering• Member of UMass Amherst Dean's List and recipient of UMass Amherst Chancellor Award	
	Georges Vanier Secondary School	Graduated June 2017
EXPERIENCE	<i>Toronto, Ontario, Canada</i>	
	<ul style="list-style-type: none">• Graduated from a math and science intensive program with the highest honors• Graduated among the top 10 percent of all graduates in the Toronto District School Board	
	RF Engineering Intern	May 2020 - August 2020
	<i>TTM Technologies Inc., Syracuse, NY</i>	
	<ul style="list-style-type: none">• I am working as an RF Engineering Intern.	
	College of Engineering Course Advisor	May 2019 - August 2019
	<i>UMass Amherst College of Engineering</i>	
	<ul style="list-style-type: none">• I had the task of advising new College of Engineering students in their course selection during the summer	
	New Student Orientation Course Advisor	May 2018 - Aug 2018
	<i>UMass Amherst New Student Orientation</i>	
	<ul style="list-style-type: none">• I had the task of advising new students with their course selection process during the orientation in the summer	
	Customer Service Employee	Sept 2017 - Present
	<i>UMass Amherst Auxiliary Services</i>	
	<ul style="list-style-type: none">• I have the task of answering questions about the auxiliary services through phone, email and in-person.	
COURSEWORK	Circuits and Electronics I and II, Digital Systems, Java Programming, Computational Tools for ECE, Analytical Tools for ECE, Signals and Systems, Probability and Statistics, Embedded Systems, Modern Physics and Materials, Fields and Waves, Semiconductor Devices and Material, Signal Processing Methods, Intermediate Electronics, Digital Signal Processing, Data Structures, Hardware Organization	
SKILLS	Java, C++, Python, MATLAB, C, Simulink, Microsoft Word, Circuit Analysis, PSpice, Atmel Studio, Mathematics, Electronics, Microsoft PowerPoint, Microsoft Excel, L ^A T _E X, Amazon AWS	
PROJECTS	MovieBase	

A script made in Python that used a text file containing a list of movies which allowed the user to search, add and remove items from the list

PathFinder

A program in Java Involving extensive use of arraylists to simulate a journey for the user which told the user of the different possible routes and their distances based on the amount of resources that were given by the user to the program.

DiceProbCalculator

A script in MATLAB that showed the probability of the different possible sums for several dice. The probability was based on the user's input for the number of dice and the number of sides on each die

LegoArm

Built a movable arm made of Lego by breadboarding a circuit and programming a microcontroller. Programmed the Atmel 328p microcontroller on the circuit using C programming on Atmel Studio

7-Segment LED Clock

Built a fully functional LED clock by breadboarding a circuit and programming a microcontroller. Used the Attiny817 microcontroller, shift registers, C programming on Atmel Studio and a LED seven-segment display.

AWARDS AND HONORS

UMASS Amherst Eta Kappa Nu (HKN) Member	February 2020 - Present
Society of Collegiate Leadership and Achievement Member	November 2019 - Present
Honor Society Member	August 2019 - Present
National Society of Leadership and Success Member	December 2018 - Present
National Society of Collegiate Scholars Member	April 2018 - Present
Recipient of the UMass Amherst Chancellor's Award	September 2017 - Present
Member of UMass Amherst Dean's List (5 semesters)	2017 - Present
Ontario Scholar	2017
Toronto School Board Certificate of excellence in Math, Science and Computer Science	2017
University of Waterloo Fermat Math Competition Award of Distinction	2016
University of Waterloo Pascal Math competition Award of Distinction	2015
University of British Columbia Michael Smith Science Challenge Award of Distinction	2015
Member of High School Honor Roll	2014-2017