## **Brehnden Daly**

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## Personal Mission Statement

			Personal Mission	on Statement			
Passionate eng	gineer who s	eeks out and thrives		lenges, knowledge-sharing, and collaboration.			
-			Educa	tion			
University of C		la 400	0 Central Florida Blvd, Orlando,	FL, 32816			
Degrees Received:		Bachelor's: Aerospace Engineering		Minor: Mathematics			
GPA (Cumula	tive): 3.272	GP	A (Major): 3.439	Graduated: May, 2020			
			Softw	are			
Languages:	Py	thon, JavaScript, SQ	QL, HTML, CSS, C/C++/C#, Visua	al Basic,			
Packages:	Nu	mpy, Numba, Cuda	, Tensorflow, Scikit, React Flow, M	MUI, Express, Frameworks:	Node, React, Electron, Flask		
IDE/Technical	SW: Vis	sual Studio Code, A	naconda, Autodesk Fusion 360, Sc	olidWorks, Ansys, NX, LabView, MATLAB,			
			Hardwa	re/OS			
Micro Compu	ting: Ra	spberry Pi, Arduino	)	Acceleration:	Nvidia Cuda, Multiprocess		
Operating Sys	_		ed Hat Enterprise Linux, macOS,		, ,		
		· ·	Employ		-		
Software Northrop		10/22 – Pres.	Currently developing software	to support lab operations on a new program.	This software is web-based and		
Engineer	Grumman			ab techs to provision lab hardware. Engineer			
C			configurations of lab hardware, operating systems, and platform software as well as schedule test events				
			consisting of said configurations	. Given the necessary conditions are met, the so	oftware automatically provisions		
			the lab hardware with the confi	guration-defined operating systems and softw	vare preparing it for official test		
			events. Learned efficient agile	software development in secure air-gapped n	etworks/environments. Became		
			SY0-601 certified (cybersecurit	y). Learned how to efficiently provision large	lab environments consisting of		
			a multitude of bare-metal serve	rs.			
RAM	Northrop 05/20 – 10/22		Proposed and received approval	for adding condition-based maintenance/progn	ostic capabilities to an advanced		
Engineer	Grumman		program's platform. This entailed performing various analyses on predecessor platforms' historical sensor data				
			as well as subsystem hardware and software to identify low-complexity prognostic opportunities in the new				
			platform. Learned how to imp	prove subsystems with the goal of maximiz	ing reliability, develop robust		
		proposals, and preprocessing methods for historical data.					
Steam	Mitsubishi	10/19 – 5/20	Furthered development and imp	rovement of both steam turbine blade path opti	mization and turbine prognostic		
Turbine	Power		software. These pieces of software provided engineers an interface to calculate optimal cross-sectional blade				
Engineer	Systems		positioning for high, intermediate, and low pressure turbines and analyzed sensor data to provide prognostic				
			reports, respectively. Learned agile software development/improvement processes, how to develop organized				
				e ground up, and how to quantify software in			
Supplemental	University			ntroductory circuit theory course at the Univer-	- ·		
Instructor	of Central	! *		nic Resource Center. My job was to host stud			
	Florida		learning concepts such as Kirchoff's and Ohm's laws, DC/AC RL, RC, and RLC circuit analysis methods, etc.				
				simplify ideas, and stay organized.			
			Proje				
Quantitative/Au	ıtomated	Python-based project for automating the analysis of historical securities data and the creation, testing, selection, and deployment					
Trading		trading strategies. Tick-level data is preprocessed and fed into a Cuda class with GPU-accelerated functions to analyze data. Rule-					
		based entry/exit decisions are then generated, back-tested, and analyzed to ensure statistical consistency over time. The most					
		promising strategies are then forward-tested with live data streamed from a broker. Adequate consistency between the back-test and					
		forward-test results in automated deployment of the strategy.					
Graph-Based Systems Engineering		Systems engineering application utilizing a React and Electron framework. This application stemmed from systems engineering					
		coworkers' complaints regarding software they use to develop and analyze requirements. Complaints focused around a lack of an					
		intuitive user interface and the inability to visualize relationships between requirements and system functions. This project aims to					
Dantiala in Call		solve that by organizing the user interface and the data structure into a graph of nodes and edges.					
Particle-in-Cell Electrostatic Simulation		Numerical iterative finite difference solver that simulates charged particles in an electrostatic and magnetic field.					
		N	- C:4- 1:66 1				
Computational Fluid Dynamics		Numerical iterative finite difference solver of computational fluid dynamic differential field equations.					
Dynamics			Pater	nte			
Cr1. 11 D			ratei	113	TIGOOFTOAF		
Stackable Dro	mes		~	- 4°	US9957045		
			Certifica	ations			
C CT 4 C		CO 71 CT 101					

CompTIA Security+ (SY0-601) Certifies an individual has the necessary skills and knowledge to assess the security posture of an enterprise environment and implement appropriate security solutions.