## Nathan A. Riojas

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Summary		passionate about continued learning and renhance skills learned during computer	
Education	-		
	Bachelor of Science, Mechanical Eng		<b>May 2016</b>
	Computer Science Minor   Re	obotics Certificate	
	The University of Texas at Austin		GPA 3.55
	<b>Related Courses:</b> Software Programming and Data Structures, Mobile Computing, Data Visualization, Introduction to Programming with Python, Introduction to Computers and		
		ming with Python, introduction to Compl tem Dynamics and Controls, Dynamic Sy	
Experience	Flogramming Using C++, Vehicle Sys	tem Dynamics and Controls, Dynamic Sy	stems and Controls
03/17–Present	<b>Quality Assurance Engineer, Codew</b>	are Inc	
OS/17 TIOSOIK	- •	scripts in Javascript to continuously test	developer changes
		ers to correct bugs and improve user expe	
06/16-03/17	Equipment Engineer, NXP Semicono		Hence
	• Maintained and improved robotic equipment operation in the chemical mechanical polishing stage		
02/15-01/16	Research Assistant, Biomechanics Experimental Laboratory		
	• Designed biaxial testing system to analyze heart tissue to aid in surgical repair of the mitral valve		
	<ul> <li>Minimized redesign changes using SolidWorks to incorporate load cells and actuators</li> </ul>		
05/15–10/15	Research Assistant, REWIRE Laboratory		
		t with considerations for smooth motion a	
	<ul> <li>Analyzed input/output robot velocity using MatLab's position differentiation capabilities</li> </ul>		
Projects			
01/16–5/16	MMAxCalc Mobile Application, Mo		
	• Developed UI/UX for an Android app in Android Studio that calculates user punching power		
	• Leveraged SDK for Javelin Device wearable to read accelerometer data via Bluetooth		
	Created SQLite database to manage user profiles and access past data		
01/16–5/16 01/16–05/16	Capstone Design Project Team Leader, Design of an Automated Wafer Handling System		
	• Designed 3 DOF robot from composite actuator systems to meet accuracy goals less than 1 micron		
	<ul> <li>Developed automated accuracy tests using capacitance probes for each axis</li> <li>Modeling and Simulation of Vehicle Behavior, Vehicle System Dynamics and Controls</li> </ul>		
J1/10 <del>-</del> 03/10	<ul> <li>Created and coded mathematical models in Matlab to analyze vehicle slip, braking, and vibrations</li> </ul>		
09/15–12/15		ject, Passive Prosthetic Finger Mechan	
0,710 12,10	e .	for an amputee using a dual four bar link	
	• Implemented simple Arduino open loop servo control to demonstrate prototype's motion path		
09/15–12/15		Elements of Data Visualization Cours	
	• Retrieved Oracle database info to create visualizations in Tableau and R Studio using ggplot		
	<ul> <li>Developed a simple interactive web app using Shiny framework</li> </ul>		
Technical Skil	ls		
<i>Proficient</i> in Er	ngineering Design, Python, HTML, CSS,	MatLab, LabVIEW, R, Tableau, TestCo	mplete; <u>Experience</u>
machining; <u>Bas</u>	ic knowledge of Git, Android, XML, SQ	Lite, VIM, Ubuntu, Java, JavaScript, SQ	L, Shiny; Working
<u>knowledge of</u> S	panish		
Awards/Leade	ership		
	Busch Scholarship Recipient	University Honors Spring, Fall 2015	
HSF ExxonMobil Scholarship Recipient LeaderShape Texas Graduate			
Theta Tau Kalv Scholarship Recipient  Brave the Shave Cancer Research Fundraiser Theta			ndraiser Theta Tau
		Team Leader	