Nathan A. Riojas

me@nathanrioj	as.com nathanriojas.com		
Summary	Highly motivated engineer capable of leveraging knowledge to design systems across several fields and industries, able to lead cross-functional teams, and passionate about software programming		
Education			
	Bachelor of Science, Mechanical l	Engineering	May 2016
	Computer Science Minor	Robotics Certificate	
	The University of Texas at Austin		GPA 3.55
		s and Controls, Robot Mechanism Design, V	
		ng Design Methodology, Mechatronics, Heat	
Evnovionos	Mechanics, Solid Mechanics, Softw	vare Programming and Data Structures, Mob	ile Computing
Experience 06/16–Present	Equipment Engineer, NXP Semic	onductors	
00/10 Tresent		c equipment operation in the chemical mecha	nical nolishing stag
02/15-01/16	Research Assistant, Biomechanics		anear ponsining stage
		to analyze heart tissue to aid in surgical repai	r of the mitral valve
	 Machined parts to correct or improve existing assembly 		
	 Minimized redesign changes using SolidWorks to incorporate load cells and hardware 		
05/15–10/15	Research Assistant, REWIRE Laboratory		
		bot with considerations for smooth motion a	•
	• Created crankshaft mechanism using SolidWorks and engineered solutions to fit the robot		
	 Analyzed input/output robot velocity using MatLab's position differentiation capabilities 		
01/14–08/14	Maintenance/Reliability Engineer, The Dow Chemical Company		
		g teams for a compressor and steam turbine	
D	Consolidated gauze change plans	s for plant converters to reduce costs by 75%	
Projects 01/16–5/16	MMAyCole Mobile Application	Mobile Computing Final Project	
01/10–3/10	 MMAxCalc Mobile Application, Mobile Computing Final Project 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	Capstone Design Project Team Leader, Design of an Automated Wafer Handling System		
	Worked to optimize in-line metrology process to minimize semiconductor manufacturing time		
	•	posite actuator systems to meet precision an	•
01/16–05/16	Modeling and Simulation of Vehicle Behavior, Vehicle System Dynamics and Controls		
	• Created and coded mathematical models in Matlab to analyze vehicle slip, braking, and vibration		
09/15–12/15		Project, Passive Prosthetic Finger Mechan	
	• Designed a passive prosthetic finger for an amputee using a dual four bar linkage mechanism		
	Utilized 3D printing to generate low resolution and alpha prototypes		
09/15–12/15		der, Elements of Data Visualization Cours	
		pases with visualizations created in R Studio	and Tableau
Technical Skil			
		, Python, MatLab, LabVIEW, R, Tableau; <u>E</u>	<u>xperience</u> machining
•	<u>ge of</u> C++; <u>Working knowledge of</u> Spa	nish	
Awards/Lead			
	Busch Scholarship Recipient	University Honors Spring, Fall 2015	
	bil Scholarship Recipient	LeaderShape Texas Graduate	- 4; T1 (T
rneta rau Kalv	Scholarship Recipient	Brave the Shave Cancer Research Fundraiser Theta Tau	

Team Leader