ab18gu@gmail.com • http://linkedin.com/in/abgup • https://github.com/ab12gu Current: Palo Alto, CA 94303

Abhay Gupta

Portfolio: abgup.com U.S. Citizen

Summer 2015

INDUSTRY EXPERIENCE

Caltrans

ME Intern \parallel 3m

INDUSTRY EXPERIENCE			
SummerBio	Develop software drivers (6 DOF arms, benchtop systems) for VWorks		Oct 2021 - Present
SW Engineer, Robotics	C#		
Lam Research SW/ME Engineer 1y6m	 Develop software and mechanical components to optimize a 6 DOF robotic arm Lead and assist Android app development 		May 2020 - Oct 2021
	C# JavaScript Python VBA	NX Teamcenter	
CSAA Insurance	 Evaluated novel engineering and physics aspects for patent a Researched alternative approaches for products and methods 	pplications	Oct 2018 - Oct 2020
Physics Consultant 2y			(Part-time)
PUBLICATIONS & PATE	NTS		
Automobile Damage Detectio J. Schow, and A. Gupta (US Pa	on using Thermal Conductivity atent)		Dec 2018
	odeling Non-Trivial Biomembrane Ruptures		Sep 2018
A Gupta, G. Reint, I. Gozen, a	nd M. Taylor (Published in <i>Soft Matter</i>)		
Certifications:	Engineer-In-Training, State of CA Solidworks CSWA		May 2018 Mar 2015
VOLUNTEERING ACTIV	TITIES		
San Jose Bicycle Clinic, Bicy	cle Technician		Jul 2020 - Present
FIRST Robotics Competition (FRC), Engineering Mentor		Aug 2021 - Present	
Reddit Group: r/ControlThe	ory, Moderator		Dec 2018 - Present
EDUCATION			
University of Washington	M.S. Robotics & Controls Engineering • PhD dropped Thesis - 3D Graphics & Regression Model	s 3.6	Sep 2018 - Dec 2019
	Python MATLAB C++	OpenGL ROS	
Santa Clara University	M.S. Computer Engineering • Half Completed Transferred to University of Washington 3.8		Sep 2017 - Jun 2018
	B.S. Mechanical Engineering		Sep 2014 - Sep 2017
	• Entrepreneurship minor Graduated in 3 years with honors		
	MATLAB 1 ^e T _E X C Simulink LabVIEW Maple Lathe Mill	Oscilloscopes	iqus Star-CCM+
INTERNSHIPS 2y		*	
Microvision	Modeled the response of Lidar activated SiPM (Silicon photo	omultipliers)	Summer 2019
SWE Intern 3m	Simulink MATLAB		
TheraNova SWE Intern 3m	 Developed a python software analysis system to understand gait measurements Ensured the software analysis is accurate for 80+ patients 		Summer 2018
"	Python MATLAB		
Valeo Systems Engr Intern 3m	 Produced hardware and software demos for automotive OEMs Collaborated with start-ups and OEMs to develop new cabin safety features VBA		Spring 2018
Pentair ME/EE Intern 7m	Optimized performance of steady state and transient phases of circuit breakers Laboratory tested and simulated rail heating to melt snow		Winter 2017
11	Ansys CFX Solidworks	ators, DC/AC Power	Supplies, Soldering
Accel Biotech ME Intern 3m	 Prototyped medical device components and test assemblies Supported mechanical, electrical, and software design of a blood diagnostic device 		
	SolidWorks	Oscilloscopes	

• Reviewed and advised on structural testing for next generation locomotives

• Designed a floor plan using Microsoft Visio & participated in vendor meetings