ab18gu@gmail.com • http://linkedin.com/in/abgup • https://github.com/ab12gu

Current: Seattle, WA 98104

Portfolio: abgup.com U.S. Citizen

Winter 2017

Abhay Gupta

After taking a leave to help with family, I am transitioning back into the industry when the right job arises. I am currently working on a custom motor driver using the microcontroller, ESP32, for FRC. Most of my other time is occupied with in mentoring college and high school students, volunteering at a bicycle repair coop & makerspace, and a variety of sports/hobbies.

INDUSTRY EXPERIENCE

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Kawasaki Robotics	Develop software to move wafer handling (scara) robots		Jun 2022 - Aug 2022
SW Engineer, Robotics	AS - Domain Specific Language		
SummerBio	 Develop software drivers (6 DOF arms, benchtop systems) C# Figma 		Oct 2021 - Feb 2022
SW Engineer, Robotics	,, ,	OnShape	
Lam Research SW/ME Engineer 1y6m	 Develop software and mechanical components to optimize Lead and assist Android app development 	a 6 DOF robotic arm	May 2020 - Oct 2021
	C# JavaScript Python VBA Figma	NX Teamcenter	
C SAA Insurance Physics Consultant 2y	 Evaluated novel engineering and physics aspects for patent applications Researched alternative approaches for products and methods 		Oct 2018 - Oct 2020
PUBLICATIONS & PATE	NTS		
Automobile Damage Detection J. Schow, and A. Gupta (US Pa	on Using Thermal Conductivity		Dec 2018
	odeling Non-Trivial Biomembrane Ruptures		Sep 2018
	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 & The Bikery, Seattle, Bicycle Board Member & Technician FIRST Robotics Competition (FRC) 254, 5940 & 4180, Engineering Mentor JAVA, Onshape, SolidWorks Reddit Group: r/ControlTheory, Moderator EDUCATION		Jul 2020 - Present Aug 2021 - Present Dec 2018 - Present	
University of Washington	M.S. Robotics & Data Science		
Oniversity of washington	Thesis - 3D Graphics & Regression Models 3.6 Advisors: Steve Brunton & Ashis Banerjee		Sep 2018 - Dec 2019
	Python MATLAB C++	OpenGL ROS	
Santa Clara University	M.S. Computer Engineering • Half Completed Transferred to University of Washington	ı 3.8	Sep 2017 - Jun 2018
			Sep 2014 - Sep 2017
	 Entrepreneurship minor Graduated in 3 years with honor MATLAB LATEX C Simulink LabVIEW Maple 		aqus Star-CCM+
INTERNSHIPS 2y	Lathe Mill	Oscilloscopes	aqus otar GGM
Microvision	Modeled the response of Lidar activated SiPM (Silicon photomultipliers)		Summer 2019
SDE Intern 3m	Simulink MATLAB		
TheraNova SDE Intern 3m	 Developed a python software analysis system to understand gait measurements Ensured the software analysis is accurate for 80+ patients Python MATLAB 		Summer 2018
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

Ansys CFX | Solidworks Oscilloscopes, Function Generators, DC/AC Power Supplies, Soldering Accel Biotech ME Intern || 3m • Prototyped medical device components and test assemblies

Summer 2016

Oscilloscopes

• Supported mechanical, electrical, and software design of a blood diagnostic device

SolidWorks

Caltrans ME Intern || 3m • Reviewed and advised on structural testing for next generation locomotives

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

Summer 2015