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

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ME Intern || 3m

• Develop software drivers (6 DOF arms, benchtop systems) for VWorks Oct 2021 - Present SummerBio SW Engineer, Robotics C# • Develop software and mechanical components to optimize a 6 DOF robotic arm May 2020 - Oct 2021 Lam Research • Lead and assist Android app development SW/ME Engineer || 1y6m C# || JavaScript || Python || VBA NX | Teamcenter **CSAA Insurance** • Evaluated novel engineering and physics aspects for patent applications Oct 2018 - Oct 2020 · Researched alternative approaches for products and methods Physics Consultant | 2y (Part-time) **PUBLICATIONS & PATENTS Automobile Damage Detection using Thermal Conductivity** Dec 2018 J. Schow, and A. Gupta (US Patent) A Cellular Automaton for Modeling Non-Trivial Biomembrane Ruptures Sep 2018 A Gupta, G. Reint, I. Gozen, and M. Taylor (Published in Soft Matter) Certifications: Engineer-In-Training, State of CA May 2018 Mar 2015 Solidworks CSWA **VOLUNTEERING ACTIVITIES** San Jose Bicycle Clinic, Bicycle Technician Jul 2020 - Present FIRST Robotics Competition (FRC), Engineering Mentor Aug 2021 - Present Reddit Group: r/ControlTheory, Moderator Dec 2018 - Present **EDUCATION University of Washington** M.S. Robotics & Controls Engineering Sep 2018 - Dec 2019 • PhD dropped || Thesis - 3D Graphics & Regression Models || 3.6 Python | MATLAB | C++ OpenGL || ROS Santa Clara University M.S. Computer Engineering Sep 2017 - Jun 2018 • Half Completed || Transferred to University of Washington || 3.8 B.S. Mechanical Engineering Sep 2014 - Sep 2017 • Entrepreneurship minor || Graduated in 3 years with honors || 3.6 MATLAB || LATEX || C || Simulink || LabVIEW || Maple SolidWorks || Abaqus || Star-CCM+ Lathe | Mill Oscilloscopes INTERNSHIPS || 2y • Modeled the response of Lidar activated SiPM (Silicon photomultipliers) Microvision Summer 2019 Simulink || MATLAB SWE Intern || 3m • Developed a python software analysis system to understand gait measurements Summer 2018 TheraNova • Ensured the software analysis is accurate for 80+ patients SWE Intern || 3m Python || MATLAB Spring 2018 Valeo · Produced hardware and software demos for automotive OEMs • Collaborated with start-ups and OEMs to develop new cabin safety features Systems Engr Intern | 3m **VBA** Winter 2017 • Optimized performance of steady state and transient phases of circuit breakers **Pentair** · Laboratory tested and simulated rail heating to melt snow ME/EE Intern || 7m Ansvs CFX | Solidworks Oscilloscopes Oscilloscopes, Function Generators, DC/AC Power Supplies, Soldering • Prototyped medical device components and test assemblies Summer 2016 Accel Biotech • Supported mechanical, electrical, and software design of a blood diagnostic device ME Intern || 3m SolidWorks Oscilloscopes

• Reviewed and advised on structural testing for next generation locomotives

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