

Abhay Gupta

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Current: Milpitas, CA 95035

Portfolio: abgup.com

U.S. Citizen

EDUCATION

University of Washington	M.S. Robotics & Controls Engineering • PhD dropped Thesis - 3D Graphics & Regression Models 3.6 Python MATLAB C++ OpenGL ROS	Sep 2018 - Dec 2019
Santa Clara University	M.S. Computer Engineering • Half Completed Transferred to University of Washington 3.8 B.S. Mechanical Engineering • Entrepreneurship minor Graduated in 3 years with honors 3.6 MATLAB LaTeX C Simulink LabVIEW Maple LaTeX Mill SolidWorks Abaqus Star-CCM+ Oscilloscopes	Sep 2017 - Jun 2018 Sep 2014 - Sep 2017
Certifications:	Engineer-In-Training, State of CA [05/18] Solidworks CSWA [03/15]	

INDUSTRY EXPERIENCE

Lam Research Robotics Engineer 1y+	• Develop software and mechanical components to optimize a 6 DOF robotic arm • Lead and assist Android app development C# JavaScript Python VBA NX Teamcenter	May 2020 - Present
CSAA Insurance Physics Consultant 2y	• Evaluated novel engineering and physics aspects for patent applications • Researched alternative approaches for products and methods	Oct 2018 - Oct 2020 (Part-time)

INTERNSHIPS

Microvision SWE Intern 3m	• Modeled the response of Lidar activated SiPM (Silicon photomultipliers) Simulink MATLAB	Jun 2019 - Aug 2019
TheraNova SWE Intern 3m	• Developed a python software analysis system to understand gait measurements • Ensured the software analysis is accurate for 80+ patients Python MATLAB	Jun 2018 - Sep 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	Apr 2018 - Jun 2018 (Part-time)
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	Sep 2017 - Mar 2018
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	Jun 2016 - Sep 2016
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	Jul 2015 - Sep 2015

PUBLICATIONS & PATENTS

Automobile Damage Detection using Thermal Conductivity J. Schow, and A. Gupta (Patent Pending)	Dec 2018
A Cellular Automaton for Modeling Non-Trivial Biomembrane Ruptures A Gupta, G. Reint, I. Gozen, and M. Taylor (Published in <i>Soft Matter</i>)	Sep 2018

VOLUNTEERING ACTIVITIES

San Jose Bicycle Clinic , Bicycle Technician <i>Come on by! We are open Thurs/Fri 5-8pm</i>	Sep 2018 - Dec 2019
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