

Abhay Gupta

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Current: Milpitas, CA 95035
Portfolio: abgup.com
U.S. Citizen

INDUSTRY EXPERIENCE

Lam Research Robotics Engineer 1y+	<ul style="list-style-type: none">Develop software and mechanical components to optimize a 6 DOF robotic armLead and assist Android app development C# JavaScript Python VBA NX Teamcenter	May 2020 - Present
CSAA Insurance Physics Consultant 2y	<ul style="list-style-type: none">Evaluated novel engineering and physics aspects for patent applicationsResearched alternative approaches for products and methods	Oct 2018 - Oct 2020 (Part-time)

PUBLICATIONS & PATENTS

Automobile Damage Detection using Thermal Conductivity J. Schow, and A. Gupta (US Patent)		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
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Certifications:	Engineer-In-Training, State of CA	May 2018
	Solidworks CSWA	Mar 2015

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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">Half Completed Transferred to University of Washington 3.8 B.S. Mechanical Engineering <ul style="list-style-type: none">Entrepreneurship minor Graduated in 3 years with honors 3.6 MATLAB \LaTeX C Simulink LabVIEW Maple Lathe Mill SolidWorks Abaqus Star-CCM+ Oscilloscopes	Sep 2017 - Jun 2018 Sep 2014 - Sep 2017

INTERNSHIPS || 2y

Microvision SWE Intern 3m	<ul style="list-style-type: none">Modeled the response of Lidar activated SiPM (Silicon photomultipliers) Simulink MATLAB	Jun 2019 - Aug 2019
TheraNova SWE Intern 3m	<ul style="list-style-type: none">Developed a python software analysis system to understand gait measurementsEnsured the software analysis is accurate for 80+ patients Python MATLAB	Jun 2018 - Sep 2018
Valeo Systems Engr Intern 3m	<ul style="list-style-type: none">Produced hardware and software demos for automotive OEMsCollaborated with start-ups and OEMs to develop new cabin safety features VBA	Apr 2018 - Jun 2018 (Part-time)
Pentair ME/EE Intern 7m	<ul style="list-style-type: none">Optimized performance of steady state and transient phases of circuit breakersLaboratory 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	<ul style="list-style-type: none">Prototyped medical device components and test assembliesSupported 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