

# Abhay Gupta

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U.S. Citizen

## INDUSTRY EXPERIENCE

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

## PUBLICATIONS & PATENTS

<b>Automobile Damage Detection using Thermal Conductivity</b> J. Schow, and A. Gupta (US Patent)		Dec 2018
<b>A Cellular Automaton for Modeling Non-Trivial Biomembrane Ruptures</b> 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 Solidworks CSWA	May 2018 Mar 2015

## VOLUNTEERING ACTIVITIES

<b>San Jose Bicycle Clinic</b> , Bicycle Technician	Jul 2020 - Present
<b>FIRST Robotics Competition (FRC)</b> , Engineering Mentor	Aug 2021 - Present
<b>Reddit Group: r/ControlTheory</b> , Moderator	Dec 2018 - Present

## EDUCATION

<b>University of Washington</b>	M.S. Robotics & Controls Engineering <ul style="list-style-type: none"><li>PhD dropped    Thesis - 3D Graphics &amp; Regression Models    3.6</li></ul> <a href="#">Python</a>    <a href="#">MATLAB</a>    <a href="#">C++</a> <a href="#">OpenGL</a>    <a href="#">ROS</a>	Sep 2018 - Dec 2019
<b>Santa Clara University</b>	M.S. Computer Engineering <ul style="list-style-type: none"><li>Half Completed    Transferred to University of Washington    3.8</li></ul> B.S. Mechanical Engineering <ul style="list-style-type: none"><li>Entrepreneurship minor    Graduated in 3 years with honors    3.6</li></ul> <a href="#">MATLAB</a>    <a href="#">L<sup>A</sup>T<sub>E</sub>X</a>    <a href="#">C</a>    <a href="#">Simulink</a>    <a href="#">LabVIEW</a>    <a href="#">Maple</a> <a href="#">SolidWorks</a>    <a href="#">Abaqus</a>    <a href="#">Star-CCM+</a> <a href="#">Lathe</a>    <a href="#">Mill</a> <a href="#">Oscilloscopes</a>	Sep 2017 - Jun 2018 Sep 2014 - Sep 2017

## INTERNSHIPS || 2y

<b>Microvision</b> SWE Intern    3m	<ul style="list-style-type: none"><li>Modeled the response of Lidar activated SiPM (Silicon photomultipliers)</li></ul> <a href="#">Simulink</a>    <a href="#">MATLAB</a>	Jun 2019 - Aug 2019
<b>TheraNova</b> SWE Intern    3m	<ul style="list-style-type: none"><li>Developed a python software analysis system to understand gait measurements</li><li>Ensured the software analysis is accurate for 80+ patients</li></ul> <a href="#">Python</a>    <a href="#">MATLAB</a>	Jun 2018 - Sep 2018
<b>Valeo</b> Systems Engr Intern    3m	<ul style="list-style-type: none"><li>Produced hardware and software demos for automotive OEMs</li><li>Collaborated with start-ups and OEMs to develop new cabin safety features</li></ul> <a href="#">VBA</a>	Apr 2018 - Jun 2018 (Part-time)
<b>Pentair</b> ME/EE Intern    7m	<ul style="list-style-type: none"><li>Optimized performance of steady state and transient phases of circuit breakers</li><li>Laboratory tested and simulated rail heating to melt snow</li></ul> <a href="#">Ansys CFX</a>    <a href="#">Solidworks</a> <a href="#">Oscilloscopes</a> , <a href="#">Function Generators</a> , <a href="#">DC/AC Power Supplies</a> , <a href="#">Soldering</a>	Sep 2017 - Mar 2018
<b>Accel Biotech</b> ME Intern    3m	<ul style="list-style-type: none"><li>Prototyped medical device components and test assemblies</li><li>Supported mechanical, electrical, and software design of a blood diagnostic device</li></ul> <a href="#">SolidWorks</a> <a href="#">Oscilloscopes</a>	Jun 2016 - Sep 2016
<b>Caltrans</b> ME Intern    3m	<ul style="list-style-type: none"><li>Reviewed and advised on structural testing for next generation locomotives</li><li>Designed a floor plan using Microsoft Visio &amp; participated in vendor meetings</li></ul>	Jul 2015 - Sep 2015