

# Abhay Gupta

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Current: Milpitas, CA 95035  
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U.S. Citizen

## EDUCATION

<b>University of Washington</b>	M.S. Robotics & Controls Engineering • Thesis: 3D Graphics & Regression Models    3.6 Python    MATLAB    C++ OpenGL    ROS	Sep 2018 - Dec 2019
<b>Santa Clara University</b>	M.S. Computer Engineering (18 units 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 Lathe    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

<b>Lam Research</b> 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
<b>CSAA Insurance</b> Physics Consultant    1y3m	• Evaluated novel engineering and physics aspects for patent applications • Researched alternative approaches for products and methods	Sep 2018 - Dec 2018 (Part-time)

## INTERNSHIPS

<b>Microvision</b> SWE Intern    3m	• Modeled the response of Lidar activated SiPM (Silicon photomultipliers) Simulink    MATLAB	Jun 2019 - Aug 2019
<b>TheraNova</b> 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
<b>Valeo</b> 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)
<b>Pentair</b> 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
<b>Accel Biotech</b> 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
<b>Caltrans</b> 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

<b>Automobile Damage Detection using Thermal Conductivity</b> J. Schow, and A. Gupta (Patent Pending)		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

## VOLUNTEERING ACTIVITIES

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