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 — Sep 2018 - Dec 2019
- Thesis: 3D Graphics & Regression Models || 3.6

Santa Clara University — M.S. Computer Engineering (18 units completed) — Sep 2017 - Jun 2018
- 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

SKILLS

Software: Programming: C#, ML, Python, C/C++, ROS, Matlab, OpenGL, Git, Maple, LabVIEW, Simulink, LaTeX
Design/Analysis: Ansys CFX, Star CCM+, SolidWorks, Abaqus, Autodesk Inventor

Hardware: Mechanical: Lathe, Mill, Laser Cutting, 3D Printing
Electrical: Oscilloscopes, Function Generators, DC/AC Power Supplies, Soldering

Certifications: Engineer-In-Training, State of CA [05/18]
Solidworks CSWA [03/15]

INDUSTRY EXPERIENCE

Lam Research — Robotics Engineer — May 2020 - Present
- Develop software and mechanical components to optimize a 6 DOF robotic arm to automate silicon etch chamber cleaning

Microvision — System Modelling Intern — Sep 2019 - Aug 2019
- Modeled the response of Lidar activated SiPM (Silicon photomultipliers) through Simulink

CSAA Insurance — Physics Consultant — Sep 2018 - Dec 2018 (Part-time)
- Evaluated novel engineering and physics aspects for patent applications
- Researched alternative approaches for products and methods

TheraNova — R&D Engineering Intern — Jun 2018 - Sep 2018
- Developed a python software analysis system to understand gait measurements
- Ensured the software analysis is accurate for 80+ patients

Valeo — Systems Engineering Intern — Apr 2018 - Jun 2018
- Produced hardware and software demos for automotive OEMs
- Collaborated with start-ups and OEMs to develop new cabin safety features

Pentair — R&D Engineering Intern — Sep 2017 - Mar 2018
- Optimized performance of steady state and transient phases of circuit breakers
- Laboratory tested and simulated rail heating to melt snow through Ansys CFX

Accel Biotech — Mechanical Engineering Intern — Jun 2016 - Sep 2016
- Prototyped medical device components and test assemblies
- Supported mechanical, electrical, and software design of a blood diagnostic device

Caltrans — Engineering Intern — Jul 2015 - Sep 2015
- Reviewed and advised on structural testing for next generation locomotives
- Designed a floor plan using Microsoft Visio & participated in vendor meetings

PUBLICATIONS & PATENTS

Automobile Damage Detection using Thermal Conductivity — Dec 2018
J. Schow, and A. Gupta (Patent Pending)

A Cellular Automaton for Modeling Non-Trivial Biomembrane Ruptures — Sep 2018
A Gupta, G. Reint, I. Gozen, and M. Taylor (Published in *Soft Matter*)

VOLUNTEERING ACTIVITIES

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