AMAR BHATT

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(U.S. Citizen)
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125 Ormsby Dr.
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EDUCATION

Rochester Institute of Technology, *Rochester, NY* *Sept 2012 – Aug 2017*

Master of Science in Computer Engineering – (3.905/4.000)
Bachelor of Science in Computer Engineering, Minor in Economics – Summa Cum Laude (3.893/4.000)

Research: Machine Intelligence Lab *Thesis:* Teaching Agents with Deep Apprenticeship Learning

EXPERIENCE

Embedded Engineer *Aug 2017– Present*
Stryker Mako Davie, FL

Computer Engineering Intern *May 2016 – Aug 2016*
Stryker Mako Davie, FL
- Worked on next-generation surgical robots
- Designed a product using computer vision techniques

Computer Engineering Intern *May 2015 – Aug 2015*
Stryker Instruments Kalamazoo, MI
- Created mini, autoclaveable power adaptor circuit
- Developed commutation circuit and software for motor
- Designed, built, and tested several PCBs

Software Engineering Co-op *Jan 2014 – July 2014*
Intuit San Diego, CA
- Built mobile responsive web apps and REST APIs
- Increased customer completion by 5%

NOTABLE PROJECTS

Thesis Research (Python) *Sept 2016 – June 2017*
- Created novel solutions for raw pixel task learning
- Utilized DQNs in deep apprenticeship learning

Myo Robotic Arm (Robot/C#/C) *Jan 2016 – Dec 2016*
- Used Myo Gesture Arm Band to control a robotic claw
- Enhanced robotic platform to respond to gestures

Vision-Based Control (Robot/MATLAB) *Nov 2016*
- Implemented vision based control system
- Developed interactive wireless robot

Milpet (Autonomous Robot) *Sept 2014 – Oct 2016*
- Designed power and control PCBs
- Wrote embedded level code for sensors and control

Autonomous Robot (Arduino) *Jun 2014*
- Built obstacle avoidance robot from scratch
- Developed pathfinding algorithm

SKILLS

Languages: Java, Python, Android, C, C++, MATLAB, Assembly, VHDL, Arduino, HTML, CSS, JavaScript, VBScript

Simulators/IDE: Quartus, ModelSim, OrCad, Allegro, Eagle, Keil, Pspice, Android Studio

Microcontrollers: Arduino, ARM, Freescale, Raspberry Pi

Robotics: Motor Control, Sensor Integration, Commutation, Computer Vision

I/O: Bluetooth, Serial Communication, Infrared

Circuitry: Digital System Design, PCB Layout, Soldering

LEADERSHIP

SG Vice President *2016 – 2017*
- Represent the interests of the student body

Sigma Chi Scholarship Chairman *2017*
- Helped brothers with their scholarship goals

Teaching Assistant *2014 – 2016*
- Assisting engineering students in lab exercises

Global Union Vice President *2014 – 2015*
- Led a team of students from various backgrounds
- Supervised the collaboration of 20+ cultural clubs

Tearney's Martial Arts *1999 – 2010*
- Achieved rank of Shodan Black Belt

PUBLICATIONS

Teaching Agents with Deep Apprenticeship Learning, RIT MS Thesis *June 2017*

Milpet – The Self-Driving Wheelchair, Electronic Imaging - Autonomous Vehicles and Machines 2017 *Jan 2017*

Giving Independence Back to the Elderly and Physically Disabled, IEEE WNYISPW 2015 *Dec 2015*