

EDUCATION	University of California Los Angeles <i>B.S. Electrical Engineering</i>	<i>Fall 2017</i>
	The Doon School, India <i>High School Diploma</i>	<i>Spring 2011</i>
EMPLOYMENT	Center for SMART Health, UCLA <i>Software Developer, SARP Project</i>	<i>Jun 2016 - Dec 2017</i>
	<ul style="list-style-type: none"> Designed feature extraction models for human activity recognition using inertial sensors. Built a cloud-based fleet management platform for 150+ devices. Built DevOps tool-chains for automated and streamlined ground-truth data collection. 	
	Wireless Health Institute, UCLA <i>Wearable Platforms Developer, SARP Project</i>	<i>Jan 2015 - May 2016</i>
	<ul style="list-style-type: none"> Sole author of multiple Android Wear applications, deployed on 150+ devices. Implemented automated and secure data transfer solutions for HIPAA sensitive information over private VPNs 	
	Embedded & Reconfigurable Systems Lab, UCLA <i>Undergraduate Research Assistant</i>	<i>Aug 2014 - Dec 2014</i>
	<ul style="list-style-type: none"> Mined EHR datasets for evaluating risk of re-hospitalizations for patients with congestive heart failure 	
COURSEWORK	Digital Signal Processing, Algorithm Design, FPGA Design, Computer Architecture, Feedback Control, Automata Theory, Introduction to CUDA	
SKILLS	<i>Programming:</i> C, Java, Python, UNIX Shell, MATLAB, L ^A T _E X <i>Frameworks:</i> Android Wear, AWS S3/EC2, TensorFlow, Weka, Xilinx, TI CCS, OpenCV <i>Hardware:</i> PCB design & etching, EagleCAD, SMT soldering rework, Arduino	
PROJECTS	Deriche Edge Detector: An IIR implementation of the Canny detector for real-time execution on low powered ARM DSPs. Implementation includes a progressive blur kernel, gradient detection, non-maximal suppression, hysteresis thresholding and Hough Transform.	
	Indoor Navigation Using Ambient WiFi: Precise indoor localization and navigation using ambient WiFi signals, trained using supervised learning on multi-class data (upto 30 unique locations). Written for Android with real-time feedback and on-the-fly training using Bayesian models.	
	Human Activity Recognition on Smartwatch: Feature extraction and supervised learning on data from wrist-worn inertial sensors. Ability to distinguish between walking, running, lying down, sitting, or standing with high accuracy and low sampling rate.	
	Analog Utility Meter Reader: Interpret snapshots of analog power meter readings as numerical data in real-time. Implemented in Python using OpenCV for Raspberry Pi with an attached USB camera.	
PUBLICATIONS	R. Malavalli, Arjun , N. Gupta, “ <i>Indoor Localization Through Machine Learning on WiFi Fingerprints</i> ”, International Conference on Indoor Positioning and Navigation (IPIN’17).	
	Bouchard K., Ramezani R., Arjun , Naeim A., “ <i>Evaluation of Bluetooth Beacons Behavior</i> ”, The 7th IEEE Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON’16), pp.1-3, IEEE, 2016.	
	B. Moatamed, Arjun , F. Shahmohammadi, R. Ramezani, A. Naeim, M. Sarrafzadeh, “ <i>Low-cost indoor health monitoring system</i> ”, Wearable and Implantable Body Sensor Networks Conference (BSN 2016), pp.159-164, IEEE, 2016.	
PATENTS	PCT/US2016/037398: “ <i>Subject assessment using localization, activity recognition and a smart questionnaire</i> ”, A.Naeim, R. Ramezani, Arjun , B. Moatamed, M. Sarrafzadeh	