Megha Parhi

	Email: mparhi@utexas.edu, Website: www.meghaparhi.com, Phone	2: 612-707-3338	
Objective	A full-time position related to Machine Learning and Signal Processin	ıg.	
Education	 The University of Texas, Austin, TX M.S. Electrical Engineering Advisor: Prof. Ahmed H. Tewfik Thesis: Classifying Imaginary Vowels from Frontal Lobe EEG via Deep Learning 	Dec. 2019	
	University of Minnesota , Minneapolis, MN B.S. Electrical Engineering	May 2015	
Selected Coursework		g, Bayesian Methods for Machine Learning, Probability and Stochastic Processes I, Digital mic Signal Processing and Data Science, Estimation Theory, Machine Learning (coursera), sis, Digital Signal Processing,	
SKILLS	C/C++, Python 2/3 (i.e., tensorflow, numpy,), MATLAB, R, PyTorch, $L\!\!\!^A\!T_{\!E}\!X$		
Work Experience	Minnetronix Inc., St. Paul, MNAugust 2QA Test Engineer	015 – June 2016	
	\cdot Assisted with the development and verification testing for a Level 3 medical device: Ventricular Assistant Device (VAD) controller.		
	 Developed and tested a protocol to test viscosity of blood using a VAD controll Assisted with the development and verification for the Enterprise Resource Plan company. 		
TEACHING	Graduate Teaching Assistant University of Texas – Department of Electrical & Computer Engineer TA for EE 313: Linear Systems and Signals	Spring 2017 ing	
Selected Publications	 Megha Parhi and Ahmed H. Tewfik. "Classifying Imaginary Vowels from Frontal Lobe EEG via Deep Learning". In: 28th European Signal Processing Conference, EUSIPCO 2020, Amsterdam, The Netherlands. 2020. 		
Selected Projects	Classifying Imaginary Vowels, August 2019 – December 2019 I showed that by using the data from the frontal region of the brain (where speech occurs) that accuracy is greater than 90 percent compared to past work that has an accuracy of 80 percent. These experiments were modeled with CNN and LSTM architectures using tensorflow. Camera-aided tracking, June 2017 – December 2018 I collected and analyzed GPS and camera data for the analysis of the position of a vehicle based on a camera and DSRC sensor using computer vision tracking algorithms and machine learning for mmWave beam alignment. Survey on Copy Number Variations, October 2016 – December 2016 I surveyed literature on Copy Number Variations (CNVs) in genome sections. This project took a closer look at the Genome Alteration Detection algorithms.		
Honors and Awards	North America School of Information Theory (NASIT) Travel Grant Undergraduate Research Opportunities Program (UROP) Award Carl E. and Ethel A. Swanson Scholarship	May 2018 Spring 2015 2014 – 2015	