

# Megha Parhi

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EDUCATION	<b>University of Texas</b> , Austin, TX <i>M.S. Electrical Engineering</i> <i>Advisor: Robert W. Heath Jr</i>	August 2016 – Present
	<b>University of Minnesota</b> , Minneapolis, MN <i>Bachelor of Electrical Engineering</i>	September 2010 – May 2015
COMPUTER SKILLS	MATLAB, C/C++, R, Python 2/3, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office	
TEACHING	<b>Graduate Teaching Assistant</b> University of Texas – Department of Electrical & Computer Engineering TA for EE 313, Linear Systems and Signals: held weekly office hours, graded homework and exams, taught lecture when professor is absent, and wrote solutions to homework and made exam problem.	Spring 2017
WORK EXPERIENCE	<b>Minnetronix Inc.</b> , St. Paul, MN <i>QA Test Engineer</i> <ul style="list-style-type: none"><li>· Assisted with the development and verification testing on a Level 3 medical device for a Ventricular Assistant Device controller.</li><li>· Assisted with the development and verification for an Enterprise Resource Planning system for the company.</li><li>· Developed and tested a protocol to test viscosity of blood using a VAD.</li></ul>	August 2015 – June 2016
RESEARCH	<b>Applied Research Labs</b> Advisor: Robert W. HEATH Jr. University of Texas – ARL Compressed Sensing for sonar arrays	January 2018 – Present
	<b>Wireless and System Innovations Lab (WSIL)</b> Advisor: Robert W. HEATH Jr. University of Texas – Department of Electrical & Computer Engineering Developed and collected data for the analysis of the position of a vehicle based on camera and DSRC for beam training by implementing Computer Vision Algorithms.	June 2017– Present
	<b>Riedel Lab</b> Advisor: Marc D. RIEDEL University of Minnesota – Department of Electrical & Computer Engineering Worked on the synthesis of Stochastic Computing systems using correlated bit-streams for my senior honors project and the analysis of Stochastic Computing using correlated bit-streams. Synthesis was done using MATLAB programming.	July 2014 – May 2015
	<b>Parhi Lab</b> Advisor: Keshab K. PARHI University of Minnesota – Department of Electrical & Computer Engineering Worked on a project for seizure prediction using MATLAB and Machine Learning to propose an algorithm to predict seizures. Worked on a simplified approach to calculate Fast Fourier Transforms (FFT) of real signals.	May 2013 – July 2014

## PUBLICATIONS

- [1] Yin Liu, **Megha Parhi**, Marc D. Riedel, and Keshab K. Parhi. “Synthesis of correlated bit streams for stochastic computing”. In: *50th Asilomar Conference on Signals, Systems and Computers, ACSSC 2016, Pacific Grove, CA, USA, November 6-9, 2016*. IEEE, 2016, pp. 167–174.
- [2] **Megha Parhi**, Marc D. Riedel, and Keshab K. Parhi. “Effect of bit-level correlation in stochastic computing”. In: *2015 IEEE International Conference on Digital Signal Processing, DSP 2015, Singapore, July 21-24, 2015*. IEEE, 2015, pp. 463–467.
- [3] **Megha Parhi**, Yingjie Lao, and Keshab K. Parhi. “Canonic real-valued FFT structures”. In: *48th Asilomar Conference on Signals, Systems and Computers, ACSSC 2014, Pacific Grove, CA, USA, November 2-5, 2014*. IEEE, 2014, pp. 1261–1265.

HONORS AND  
AWARDS

Undergraduate Research Opportunities Program (UROP) Award	Spring 2015
Carl E. and Ethel A. Swanson Scholarship	2014 – 2015

PROFESSIONAL  
ORGANIZATIONS

IEEE Student Member	September 2013 – Present
Eta Kappa Nu (HKN)	May 2013 – Present