

Current Address  
710 Peachtree St. NE  
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**Evan T Gebhardt**  
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Permanent Address  
66 Riverside Ave  
Apartment 20  
Red Bank, NJ 07701

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Education: **The Georgia Institute of Technology**, Atlanta, GA May 2021 (Expected Graduation)  
Ph.D. Student in Electrical and Computer Engineering  
GPA: 4.0  
Research Adviser: Prof. Marilyn C Wolf

**The Pennsylvania State University**, State College, PA  
Master of Science, Electrical Engineering May 2017  
GPA: 3.75  
Research Adviser: Prof. Ram M. Narayanan.

Bachelor of Science, Electrical Engineering May 2015  
GPA: 3.59

Skills: MATLAB, Python, Latex (experienced)  
C++ (some experience)

Academic  
Experience: **The Georgia Institute of Technology**, Atlanta, GA August 2017-Present  
Graduate Research Assistant

- Development of a visual-infrared dataset for use in object detection.
  - Focus on difficult scenes and pedestrian and vehicle detection
- Creation of noise models to simulate atmospheric distortions and their impact on performance of object detection.

**The Pennsylvania State University**, State College, PA July 2015-May 2017  
Research Assistant

- Through Wall Radar research utilizing multiple antennas
- Developed signal processing algorithms to improve detection and localization of targets behind walls
  - Range Migration algorithm for SAR imaging
  - Wavelet Based SVD wall clutter mitigation
- Utilized stepped frequency radars to collect data to form range Doppler maps for classification of number of targets behind wall

**The Pennsylvania State University**, State College, PA August 2014-May 2015  
Teaching intern

- Taught students how to use oscilloscope and function generators to complete labs.
- Guided students through circuit design concepts
- Demonstrated to students how to troubleshoot circuits

Work  
Experience: **Microwave Measurement Systems LLC**, State College, PA November 2014-July 2015  
Designs and develops free space systems for microwave characterization of electromagnetic properties of materials  
Engineer

- Oversaw assembly and test of free space measurement system
  - Issued purchase orders and tracked materials for timely delivery

- Assembled free space system and tested it to ensure the electromagnetic measurements were within X-band specifications
- Built shipping crate and ensured it met all international shipping requirements
- Traveled to Saudi Arabia to assemble free space system and demonstrate to Saudi research group
- Handled all day to day operations with responsibilities ranging from cleaning premise and dealing with vendors to repairing VNA.

**General Electric, Transportation**, Erie, PA

May 2014-August 2014

GE Transportation is a global technology leader and supplier to the railroad, mining, marine, stationary power, drilling, and energy storage industries.

Electrical Engineering Intern

- Created simulator to test engine control panel, and generator control panel.

**JLG Industries, Inc.**, Orrville, OH

June 2013-August 2013

JLG Industries is the world's leading designer, manufacturer and marketer of access equipment

Electrical Engineering Intern

- Diagnosed wire harness problems to ensure telehandler prototypes stayed on schedule
- Reviewed schematics to ensure components were up to date.
- Updated existing wire harnesses to meet design requirements

Conference

Papers:

**Gebhardt, Evan T.**, Ram M. Narayanan, and Sean P. Broderick. "MIMO radar for through-wall target identification in single and two wall scenarios." *SPIE Defense+ Security*. International Society for Optics and Photonics, 2016.

Journal

Papers:

Narayanan, Ram & **T. Gebhardt, Evan** & P. Broderick, Sean. (2017). Through-Wall Single and Multiple Target Imaging using MIMO Radar. *Electronics*. 6. 70. 10.3390/electronics6040070.

Societies:

Mentor, Penn State Engineering Orientation Network  
Member, Eta Kappa Nu  
IEEE, Member of Penn State Student Chapter