

Andrius Lietuvninkas

US Citizen

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OBJECTIVE

Highly motivated Electrical Engineering Master's Student, seeking an internship position in the field of antenna design/research and/or applied electromagnetics to gain valuable experience and further knowledge in respective field.

EDUCATION

University of Oklahoma, Norman, OK

Master's of Science in Electrical Engineering, December 2016

Currently in first semester of studies.

University of Oklahoma, Norman, OK

Bachelor of Science in Electrical Engineering, December 2014

Overall GPA: **3.39/4.0** Major GPA: **3.58/4.0**

Relevant Coursework:

- Antennas
- RF/Microwave Filters
- Electromagnetic Fields I
- EM Fields & Wave Propagation
- Digital Signal Processing
- Digital Signals and Filtering
- Intro to Communication Theory

RELEVANT EXPERIENCE

Graduate Research Assistant,

Jan 2015 – Present

- Univ. of Oklahoma Advanced Radar Research Center
- Norman, OK
- *Advisor:* Dr. Jessica Ruyle
- Development of an analytic model for a conductor-backed slot antenna.
- Research of characteristics of various edge treatments to ground plane of slot antenna when backed by conducting plane to mitigate reactive loading and promote radiation of fields between slot antenna and conductor backing

Undergrad Research Assistant,

May 2013 – Dec 2014

- Univ. of Oklahoma Advanced Radar Research Center
- Norman, OK
- *Advisor:* Dr. Jessica Ruyle
- Investigation into conformal antenna design limits. Simulated, built, and tested slot and microstrip patch antennas of three different substrates and thicknesses from Rogers Corp that were bent at various radii of curvature. Analysis included input impedance performance of antennas and failure modes of fabrication process. Future analysis will include radiation pattern measurements from inside an anechoic chamber.
- Investigation of bending cavity-backed rectangular cross-slotted antenna that is circularly polarized at broadside and linearly polarized at endfire.
- Design and construction of five bazooka-balun fed tri-dipole antennas, each at a different frequency, for use in testing newly constructed large anechoic chamber at Advanced Radar Research Center's Radar Innovations Laboratory.

Intern, NASA Goddard Space Flight Center

Summer 2014

- Greenbelt, MD
- *Mentor:* Dr. Rafael Rincon (Code 0555)
- Radar electronics integration and testing. Assisted in the research and development effort of a novel synthetic aperture radar technology used for collecting data important to the Earth and planetary scientists. Tasked with testing integrity of complete radar electronics unit which included sixteen transceiver modules, and aided in fully integrating individual radar systems for full scale testing which included design and build of control signal breakout board. This technology was meticulously designed to allow modifications capable of future spaceborne applications.

TECHNICAL PRESENTATIONS

A. Lietuvninkas, B. Pirtle, "Digital Beamforming Synthetic Aperture Radar, 2nd Gen. (DBSAR-2)," *poster, 2014 Intern Poster Session, NASA Goddard Space Flight Center, Greenbelt, MD, Aug. 2014.*

A. V. Lietuvninkas, V. K. Howe, H. H. Sigmarsson, and J. E. Ruyle(presenter), "Investigation of Conformal Antenna Design Limits," *oral, in Proc. 2013 Antenna Applications Symposium, Allerton Park, Monticello, IL, Sept. 2013.*

SKILLS & CERTIFICATIONS

- Antenna Design
- Analog/Digital Filter Design
- Circuit Design
- PCB Design
- Network Analyzer
- Spectrum Analyzer
- Oscilloscope/Multimeter
- Signal Generator
- Photolithography
- Soldering

PROGRAMS AND PROGRAMMING LANGUAGES

- ANSYS HFSS
- FEKO
- AWR Microwave Office
- MATLAB
- C/C++
- Multisim
- Eagle
- Express PCB

HONORS AND ACTIVITIES

- President's Honor Roll: Fall 2014
- Dean's Honor Roll: Spring 2012 – Spring 2014
- Vice President, OU IEEE: May 2013 – May 2014
- Engineer's Club
- Delta Upsilon Fraternity
- Campus Activities Council

WORK EXPERIENCE

Administrator, Vytis Properties, LLC, Chicago, IL, Summer 2010, 2011

- Responsible for filing away paperwork or mailing out certain legal documents to the appropriate recipients.

Cook, Camp Dainava, Jackson, MI, Winter 2010

- Responsible for cooking breakfast, lunch, and dinner for approximately one hundred people for an entire week. Was one out of six total cooks.