

ADAMANTIA CHLETSON

ad.chletsou@gmail.com

Howell, MI 48843

(+1)2484228740

WORK EXPERIENCE

MICHIGAN STATE UNIVERSITY

2018 - Expected December 2022

Graduate Research Assistant

East Lansing, MI

Advisor: John Papapolymerou

Research Outline

- Design and implement using Additive Manufacture techniques the future RF devices
- Design antennas and bandpass filters for automotive, biomedical and space applications using HFSS by Ansys and FEKO by Altair
- Develop antennas and bandpass filters using Additive Manufacture techniques (Aerosol Jet Printer by Optomec) and photo-lithography in Cleanroom
- Research curing processes and conductive materials for Additive Manufacture
- Setup test environment for antenna measurements inside Satimo near field system and inside far field antenna measurement chamber
- Design and implementation of rectifying antenna connected to energy harvester for RFID implantable biomedical devices
- Setup testing for rectenna measurements inside mix mimicking human muscle and minced meat using RFID reader

FORD MOTOR COMPANY

May 2022 - August 2022

Research and Advanced Electrical Supplemental Intern

Dearborn, MI

- Develop C-V2X antenna using photo-lithography and Aerosol Jet Printer by Optomec
- Set up experimental setup for antenna measurements on vehicles inside the MVG3000M near field system and at an outdoor far field antenna range facility
- Measure antenna S-parameters using FieldFox or Keysight Network Analyzer (VNA)
- Analyze antenna radiation data using Matlab

NOKIA NETWORKS

2014-2018

Software Engineer

Athens, Greece

- Feature design, SW development C++, Unix, SQL for hiQ and iSuite products
- Customer/Technical/Emergency Support Engineer for hiQ product series
- Member of Nokia 5G Research Group: Analysis and presentation of different 5G technologies

EDUCATION

MICHIGAN STATE UNIVERSITY, East Lansing, USA

2018 - Expected December 2022

PhD Candidate in Electrical and Computer Engineering

Department of Electrical and Computer Engineering

MICHIGAN STATE UNIVERSITY, East Lansing, USA

2018 - 2020

MSc. in Electrical and Computer Engineering (3.875/4.0)

Department of Electrical and Computer Engineering

NATIONAL TECHNICAL UNIVERSITY OF ATHENS, Athens, Greece

2010 - 2015

BSc. in Electrical and Computer Engineering (7.64/10)

Majors: Electromagnetic Waves and Telecommunications

Telecommunication Systems and Computer Networks

Management and Decision Support Systems

Linguistic	Greek (native), English (CPE), German (C1), Chinese (HSK2)
Modeling and Analysis	Ansys HFSS, Altair FEKO, AutoCad, ADS, Cadence, Matlab
Software & Tools	MS Office, Latex, Linux, SQL, Python, C++

AWARDS AND RECOGNITION

Engineering Graduate Research Symposium, Michigan State University	<i>December 2018</i>
Best Poster Award in Electrosystems	
Harriett B. Rigas Memorial Endowment for Undergraduate and Graduate Women Majoring in Electrical Engineering	<i>February 2018</i>

OUTREACH ACTIVITIES

Redefining Electrical and Computer Engineering Faculty (iREDEFINE ECE)	<i>April 2020</i>
Participated in the National Science Foundation-iREDEFINE Workshop and received an iREDEFINE Professional Development Award.	
Introduce a Girl to Engineering, Michigan State University	<i>February 2020</i>
Organize and present hands-on engineering activities to 4 th – 8 th graders at the MSU engineering labs.	
2019 International Microwave Symposium Project Connect	<i>June 2019</i>
Selected and awarded a travel grant to participate in IMS Project Connect. Attended social and career development sessions and interacted with leading industry professionals.	

PUBLICATIONS

Google Scholar: <https://scholar.google.com/citations?user=SRxznzP8AAAAJ&hl=en&oi=ao>

1. Chletsou Adamantia, Ibrahim Kagan Aksoyak, John Papapolymerou, and Ahmet Cagri Ulusoy. *"UHF Rectenna for Implanted and Free Space Communications."* In 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, pp. 641-642. IEEE, 2019.
2. Chletsou, Adamantia, Cameron Crump, John Papapolymerou, and John F. Locke. *"Aerosol Jet Printed Antenna for Vehicular Communications."* In 2020 Antenna Measurement Techniques Association Symposium (AMTA), pp. 1-4. IEEE, 2020.
3. Chletsou, Adamantia, Yuxiao He, John F. Locke, and John Papapolymerou. *"Multi-band, Flexible, Lightweight Antenna on LCP for Automotive Applications."* In 2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, pp. 1507-1508. IEEE, 2020.
4. Aksoyak, Ibrahim Kagan, Adamantia Chletsou, John Papapolymerou, and Ahmet Cagri Ulusoy. *"A High Sensitivity RF Energy Harvester for Diverse Environments."* In 2020 50th European Microwave Conference (EuMC), pp. 444-447. IEEE, 2021.
5. Chletsou, Adamantia, John F. Locke, and John Papapolymerou. *"Vehicle Platform Effects on Performance of Flexible, Lightweight, and Dual-Band Antenna for Vehicular Communications."* IEEE Journal of Microwaves, pp. 1-11. IEEE, 2021.
6. Chletsou, Adamantia, John F. Locke, and John Papapolymerou. *"Additive Manufactured Antennas on Automotive ABS Using Intense Pulsed Light Sintering."* In 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), pp. 1-2. IEEE, 2022.
7. Chletsou, Adamantia, Bannon Alexandra, Konstantinou Xenophon, Reimnitz Lauren, John F. Locke, and John Papapolymerou. *"Additive Manufactured CPW lines Cured by Intense Pulse Light for Automotive Microwave Applications."* In 2022 IEEE European Microwave Conference. (to be published)
8. Chletsou, Adamantia, John F. Locke, and John Papapolymerou. *"Effects of Plastic Vehicular Covers on Radiation Characteristics of Lightweight, Dual-band Antenna for Vehicular Communications"* In IET Journal of Engineering. (to be published)