NEM BLAGOJEVIC

nembla@proton.me | 404-376-7897
linkedin.com/in/nblagoje | github.com/nemanjaone

Experience

Electronic Controls Engineer II - Systems
June 2021 - Present
Rheem Manufacturing – Water Heating Division
Roswell, GA

• Member of controls design team focused on systems integration in the Rheem Water Heater Division.
• Creating system requirements and component selection, certification testing, and post-launch support.
• Creating and maintaining documentation including functional specifications, traceability matrices, software specifications, test specifications, and test reports.
• Developed prototype webpage of proprietary software using VueJS to increase accessibility for engineers.
• Developed test automation script using Python Selenium to automate demand response compliance testing.
• Member of the Consumer Technology Association (CTA) committee overseeing CTA-2045.

Education

Kennesaw State University
Jan 2016 – Dec 2020
Bachelor of Science in Electrical Engineering (3.5/4.0 GPA)

• **Courses:** C++ Programming for Engineers, Embedded Systems, Control Systems, Ordinary Differential Equations, Electromagnetic & Microwave Applications, Probability & Statistics

Research Experience

Machine Learning for RF Networks
Jan 2020 – May 2020
Directed Study – Kennesaw State University

• Built linear regression machine learning system to predict values in an integrated circuit using Python
• Predicted the values of an L-shaped RF matching network with 90% accuracy
• Utilized the output values in the Keysight ADS circuit simulation to generate power reflection data
• Libraries utilized include NumPy, Pandas, scikit-learn, matplotlib, and pickle

Wireless Power Transfer
Aug 2019 – Dec 2019
Directed Study & Senior Design – Kennesaw State University

• Created Keysight ADS simulation of manufactured rectifier circuit and matching network on single PCB
• Modeled parasitic components on the matching network, capacitors in charge pump, and transmission line effects
• Performed large signal analysis in the frequency and time domain and reduced power reflection into charge pump
• Presented project at IEEE RFID 2020 conference

Skills

Languages:	Python, HTML/CSS, JavaScript
Frameworks:	VueJS, CSS Bootstrap
Libraries:	Selenium, NumPy
Technologies:	Git, MQTT, Jira, JAMA, Asana, SharePoint
Software:	Keysight ADS, MATLAB, Simulink, CST Studio, LabVIEW, Enterprise Architect
	Microsoft Word, PowerPoint, Excel, Outlook, OneDrive
Soft Skills:	English, Serbian, Croatian, Bosnian, and Montenegrin – Native Fluency
	Spanish - Beginner