Naveed H. Ahmed

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EDUCATION

Bachelor of Science in Electrical and Computer Engineering   August 2022 - May 2025
The University of Texas at Austin, GPA: 3.98

Lawrence E. Elkins High School   August 2018 - June 2022
National Merit Commended, Career and Technical Education Student Ambassador

Relevant Coursework
Linear Systems and Signals, Digital Logic Design, Software Design and Development II, Electromagnetic Engineering

SKILLS

Programming	Java, Python (scikit-rf, ezdxf), Lisp Scripting, Assembly (ARM), C++, Linux, JavaScript
Design Software	MATLAB, LTSpice, ADS (Advanced Design System), Origin, Fusion 360, AutoCAD, Eagle

WORK EXPERIENCE

UT RF Acoustics and Microsystems Lab   *Undergraduate Researcher* – December 2022 - Present
- Assist in testing research hypotheses through operation of photolithography equipment and software
- Create MATLAB/Python scripts to auto generate various customizable acoustic device components
- Verify research results by probing filtering devices to measure the impedance/admittance of said device
- Analyzing impedance/admittance results to characterize the nature of the excited acoustic responses

Rice Secure and Intelligent Micro-Systems Lab   *Summer Researcher* – May 2023 - August 2023
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IBM Accelerate Hardware Development   *Intern* – May 2023 - July 2023
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Applied Automation and Controls, Inc.   *Intern* – May 2019 - July 2019
- Designed CAD models using the SolidWorks software to fulfill criteria of 15+ customers
- Simulated part interactions in Inventor to verify tolerances for 3D printing
- Learned electronics component soldering and MIG Welding as part of intern training program

PROJECTS

IR Auto Plotter Design   **UT RF Acoustics and Microsystems Lab**
- Created adjustable MATLAB and Python scripts to auto generate printable devices for infrared absorber design.
- MATLAB program drew from various inputted parameters to adjust sizing and position of devices
- Script outputted to a Caltech Intermediate Format to split layers for photolithography printing

RESEARCH PUBLICATION

Vakhtang Chulukhadze, Jack Kramer, **Naveed Ahmed**, Omar Barrera, Sinwoo Cho, and Ruochen Lu "*Frequency Tuning of Suspended Millimeter Wave Lithium Niobate Acoustic Resonators by Ion Beam Assisted Argon Gas Cluster Trimming*" 2023 IEEE International Ultrasonics Symposium

Submission ID: 2403   March 2023

EXTRA-CURRICULAR

- Institute of Electrical and Electronics Engineers **IEEE** *Member* – August 2022 - Present
- IEEE Robotics and Automation Society **IEEE-RAS** *Member* – August 2022 - Present
- Elkins UIL/TMSCA Academic Team *Head Coordinator* – August 2020 - June 2022
- Elkins Technology Student Association *Vice President* – August 2019 - June 2022

ACHIEVEMENTS

TMSCA State Champion Team and Individual in Mathematics	Spring 2022
UIL State Second Place Team and Individual in Calculator Applications	Spring 2022
Texas TSA State Fifth Place in AutoCAD Engineering	Spring 2021