

Samuel Roach

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Objective

I am a motivated electrical engineering senior preparing for a career in antenna design

Education

- The University of Oklahoma - *Norman, OK* 2020-2024
- B.S. in Electrical Engineering with Honors
 - Minor in Mathematics
 - GPA: 3.95
- The Oklahoma School of Science and Mathematics - *Oklahoma City, OK* 2018-2020

Engineering Experience

- Raytheon Intelligence and Space - *Dallas, TX* 2023-Present
- Intern/New Hire over the summer of junior year
 - Utilized HFSS, ADS, AutoCAD, and MATLAB on various RF projects
- Advanced Radar Research Center (ARRC) - *The University of Oklahoma* 2023-Present
- Honor's Thesis research under Dr. Jessica Ruyle focused on antenna design
 - Worked under Dr. Nathan Goodman on radar signal processing projects
- Zeeco, Inc. - *Broken Arrow, OK* 2022
- Intern over the summer of sophomore year
 - Constructed a program using LabVIEW for burner waveform analysis
- First-Year Research Experience (FYRE) - *The University of Oklahoma* 2020-2021
- Constructed neural networks to predict the biological evolution of COVID-19 virus using Python and Pytorch

Honors & Awards

- Regent's Institutional Nominee Scholarship - *The University of Oklahoma* 2020-2024
- One of 50 students selected across Oklahoma to receive \$32,000 for undergraduate studies
- Eagle Scout - *Troop 81 Tulsa, OK* 2007-2019
- Achieved by organization and construction of elevated flower beds at Roger's Country Adult Daycare Center

Clubs & Organizations

- Tau Beta Pi - *OK Alpha, The University of Oklahoma* 2022
- Oldest Engineering Honor Society in the United States
 - Required to be in the top 1/8th of class during junior year
- Transformative Tutoring Initiative - *The University of Oklahoma* 2022
- Taught two students Algebra I from Newcastle High School

Additional Experience

- Hideaway Pizza - *Norman, OK* 2021-2022
- Organized seating within the restaurant for guests and cooked pizza

Technical Skills

- Computer Programming
- MATLAB, LabVIEW, Java, C, C++, Python, Pytorch, and LaTeX
- Circuit Design Software
- AnsysEM HFSS, ADS, AutoCAD, NI Multisim, and Autodesk EAGLE