

Joseph Kim

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SUMMARY

Current Electrical Engineering student with hands-on experience in RF and microwave engineering. Contributed to various academic projects that focused on the design and simulation of components using industry-standard tools like Keysight ADS, Ansys HFSS, and Genesys. Collaborating with peers and faculty updated skills while fostering knowledge-sharing environments. Excited to learn from experienced professionals at Innovative Tech Solutions, combining theoretical understanding with practical application. Strong communicator able to clearly present findings and results, ensuring documentation aligns with rigorous academic standards. Looking forward to contributing positively to future engineering projects.

EDUCATION

Bachelor's Degree in Electrical Engineering
Rochester Institute of Technology GPA: 3.7
Coursework: Circuit Design, Microwave Theory, Signal Processing, Communication Systems

2027
Rochester, NY

TECHNICAL SKILLS

- **RF Design Tools:** Keysight ADS, Ansys HFSS, Genesys
- **Simulation Techniques:** Electromagnetic Analysis, Circuit Validation, Performance Measurement
- **Documentation Practices:** Report Writing, Data Analysis, Peer Reviews
- **Laboratory Equipment:** Signal Generators, Spectrum Analyzers, Oscilloscopes
- **Testing Methodologies:** Lab Testing, Benchmark Metrics, Reliability Assessments
- **Communication Skills:** Presentations, Technical Reporting, Interpersonal Engagement
- **Project Management:** Task Coordination, Milestones, Time Management
- **Software Proficiency:** MATLAB, Python, C++
- **Safety Compliance:** Lab Safety Standards, Risk Management, Equipment Maintenance
- **Networking:** Industry Events, Professional Development, Guest Lectures

SKILLS

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|-------------------------|----------------------|----------------------------|-------------------------|
| • RF Design | • Testing Techniques | • Electromagnetic Analysis | • Laboratory Safety |
| • Microwave Engineering | • Keysight ADS | • Collaboration Skills | • Data Reports |
| • Simulations | • Ansys HFSS | • Project Management | • Peer Review Processes |
| • Documentation | • Genesys Software | • Communication | • Engineering Standards |

EXPERIENCE

RF Engineering Intern
University Project

June 2025 - Present
Rochester, NY

Engaged as an RF Engineering Intern focusing on the design, simulation, and testing of RF and microwave systems. Collaborated within a team to deliver on critical project milestones, emphasizing both quality outputs and detailed reporting.

- Collaborated with a team to design and simulate RF components for a multi-chip module project, utilizing Keysight ADS for circuit analysis.
- Conducted laboratory testing on microwave components, measuring performance against established benchmarks.
- Developed comprehensive documentation and reports on test results, ensuring alignment with project milestones.
- Engaged in peer reviews to enhance project outcomes and foster knowledge sharing among team members.
- Presented findings to faculty and peers, receiving commendations for clarity and technical accuracy.
- Gained exposure to real-world applications of theory, assuring preparedness for future engineering roles.

Electrical Engineering Research Assistant
Academic Research

January 2025 - May 2025
Rochester, NY

Supported innovative research initiatives in engineering focusing on electromagnetic analysis and simulations for RF systems.

- Assisted in developing a project centered on electromagnetic analysis using Ansys HFSS, driving novel insights in RF engineering.
- Conducted simulations assessing design efficiency and system reliability, informing critical enhancements.
- Collaborated with faculty to prepare research findings for publication, boosting academic visibility.
- Participated in weekly team meetings to discuss progress and resolve technical challenges collaboratively.
- Maintained laboratory equipment and ensured compliance with safety standards during experiments.

Capstone Project Developer

September 2024 - December 2024

Student Lab

Rochester, NY

- Led a capstone project concentrating on designing and implementing an RF communication system. Navigated cross-functional collaboration crucial for achieving deadlines.
- Led a project aimed at designing an RF communication system, achieving objectives efficiently within set timelines.
 - Utilized Genesys software for circuit design, proper validation ensured optimal communication system functionality.
 - Engaged with industry professionals through guest lectures and networking events, enhancing real-world relevance of project work.
 - Coordinated with teammates to present project outcomes at the university's engineering fair, receiving acclaim from professors.

LEADERSHIP & AWARDS

- Dean's List, Rochester Institute of Technology, 2024-2026
- First Place, University Hackathon, RF Project Category, 2025

CERTIFICATIONS

- Fundamentals of Engineering (FE) Certification 📅 2026
- RF and Microwave Engineering Fundamentals 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Branch, RIT
- Volunteer Tutor, Mathematics and Physics for First-Year Engineering Students

LANGUAGES

- English (Native)
- Korean (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST