

# Julian Frazier

## Electrical Engineer/Scientist

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### SUMMARY

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Electrical engineer with a Ph.D. in Electrical Engineering and hands-on experience in electronics hardware, complemented by software development skills. Proficiency in power systems and renewable energy design ensures the delivery of innovative solutions. Ability to manage several projects simultaneously while fostering effective communication within multidisciplinary teams reflects a collaborative spirit. Designed testing protocols in laboratory environments and translated complex technical information for varied audiences. Engaging with stakeholders has sharpened presentation abilities, turning intricate data into actionable insights. Focused on continuous learning through mentorship and teamwork.

### EXPERIENCE

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#### Electrical Engineer

Innovative Solutions Corp 📅 June 2023 - Present 📍 Chicago, IL

Leading consulting projects in renewable energy and power systems. Ensures client satisfaction through strategic solutions and compliance with industry standards. Establishes a collaborative environment among engineers to communicate findings effectively.

- Designed testing protocols that aligned with regulatory standards.
- Collaborated with diverse teams in various projects across industries.
- Communicated technical conclusions in clear, audience-tailored reports.
- Enhanced product reliability by analyzing system failures and proposing adjustments.
- Mentored junior staff to promote knowledge sharing and professional growth.
- Integrated advanced methodologies into project workflows to drive innovation.

#### Junior Electrical Engineer

Tech Innovations Inc. 📅 August 2021 - May 2023 📍 Naperville, IL

Supported commercial application projects by assisting in control system design and evaluations. Curated documentation for stakeholders while developing embedded systems.

- Conducted root cause analysis on product failures to improve system integrity.
- Collaborated extensively with engineering teams in product development.
- Prepared and presented technical documents during stakeholder meetings.
- Actively engaged in learning emerging technologies relevant to electrical engineering.
- Diligently tracked project progress, ensuring adherence to timelines and goals.
- Developed user-friendly solutions through cross-functional teamwork.

#### Research Assistant

GreenTech Labs 📅 September 2020 - May 2021 📍 Champaign, IL

Focused on academic research regarding renewable energy advancements. Created prototypes and ensured rigorous safety protocols throughout lab operations.

- Gathered data through experimental setups to support ongoing research.
- Presented findings at academic conferences, honing public speaking skills.
- Contributed to research papers aimed at publishing critical advancements.
- Collaborated in an interdisciplinary environment focused on sustainability.
- Ensured upkeep of laboratory safety measures and equipment functionality.
- Engaged with peers as part of team-supported project initiatives.

### LEADERSHIP & AWARDS

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- Dean's List, University of Illinois Urbana-Champaign (2022, 2023)

### EDUCATION

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#### Ph.D. in Electrical Engineering

University of Illinois Urbana-Champaign 🎓 GPA: 3.9 📅 2026 📍 Champaign, IL

**Coursework:** *Circuit Analysis, Power Systems, Renewable Energy, Control Systems*

### CERTIFICATIONS

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- Certified Engineer in Training (EIT) 📅 2026

## TECHNICAL SKILLS

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- **Testing Tools:** MATLAB, LabVIEW, Multisim
- **Simulation Software:** SPICE, Simulink, ANSYS
- **Design Software:** AutoCAD, SolidWorks, PSpice
- **Development Platforms:** Arduino, Raspberry Pi, FPGA
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Documentation Software:** Microsoft Word, LaTeX, Google Docs
- **Version Control Systems:** Git, Subversion, Bitbucket
- **Operating Systems:** Windows, Linux, macOS
- **Data Analysis Tools:** Excel, MATLAB, Python

## SKILLS

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- Power Systems
- Embedded Systems
- Testing Protocols
- Compliance
- Renewable Energy
- Technical Communication
- Data Analysis
- Electrical Design
- Circuit Analysis
- Project Management
- Test Engineering
- Prototyping
- Control Systems
- Electronics Development
- Safety Standards
- Interdisciplinary Research

## PROFESSIONAL AFFILIATIONS

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- President, Electrical Engineering Society, University of Illinois (2023)
- Member, IEEE (Institute of Electrical and Electronics Engineers)

## LANGUAGES

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- English (Native)
- Spanish (Proficient)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST