

Kingston Banks

Substation Electrical Engineer Intern

📞 (404) 555-0123 ✉️ kingston.banks@example.com 🔗 [linkedin.com/in/kingston-banks](https://www.linkedin.com/in/kingston-banks) 📍 Atlanta, GA 30301

SUMMARY

Current Electrical Engineering student with practical experience gained through various academic projects focused on power systems, automation, and AI applications. Proven ability in 3D modeling and design, complemented by a strong foundation in coding languages like Python. Demonstrated capability to work independently or collaborate within project teams, showing great attention to detail and organizational skills. Actively eager to apply theoretical knowledge in real-world settings and contribute to innovative engineering solutions that drive advancements in the energy sector.

EDUCATION

Bachelor of Science in Electrical Engineering

Georgia Institute of Technology 🎓 GPA: 3.5 📅 2027 📍 Atlanta, GA

Coursework: Power Systems, Automation, Digital Circuit Design, Renewable Energy Systems

TECHNICAL SKILLS

- **Programming Languages:** Python, MATLAB
- **3D Modeling Tools:** AutoCAD, SolidWorks
- **Data Analysis Software:** Excel, MATLAB
- **Artificial Intelligence Tools:** TensorFlow, Scikit-learn
- **Simulation Software:** MATLAB, Simulink
- **Version Control Systems:** GitHub, Git
- **Reporting Tools:** Microsoft Power BI, Tableau
- **Project Management Platforms:** Trello, Asana
- **Networking Technologies:** Cisco, Juniper
- **Cloud Computing Services:** AWS, Azure

SKILLS

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|---------------|----------------------------|-------------------------|----------------------|
| • Python | • Data Analysis | • Simulations | • Team Collaboration |
| • MATLAB | • Project Management | • Prototyping | • Documentation |
| • AutoCAD | • AI Applications | • Design Specifications | • Excel |
| • 3D Modeling | • Engineering Calculations | • User Interface Design | |

EXPERIENCE

Engineering Intern

University Project 📅 January 2026 - May 2026 📍 Atlanta, GA

Assisted in developing prototypes for smart grid technology during a collaborative capstone project involving advanced research into renewable energy integration.

- Conducted engineering calculations using MATLAB, enhancing system performance analysis.
- Developed 3D models of components via AutoCAD for effective stakeholder presentations.
- Automated data analysis processes with Python, which significantly improved accuracy and efficiency.
- Tracked project milestones and prepared comprehensive reports documenting progress and findings.
- Presented technical details clearly to peers and faculty, earning commendations on communication skills.
- Facilitated teamwork and nurtured collaborative problem-solving approaches throughout the project.

Research Assistant

Academic Research 📅 September 2025 - December 2025 📍 Atlanta, GA

Collaborated on applying AI concepts to enhance electrical grid management through predictive analytics, contributing valuable insights for further research and development.

- Designed experiments that assessed AI solution efficacy in optimizing energy distribution.
- Drafted algorithms in Python for real-time data processing, boosting operational efficiency.
- Analyzed collected data comprehensively, aiding significantly in research paper preparation.
- Engaged in team discussions for improving experimental setups formulated based on initial results.
- Coauthored publications detailing findings at local academic conferences.

- Strengthened foundational engineering knowledge through hands-on research experimentation.

Team Member

Hackathon Project 📅 March 2026 📍 Remote

Participated in a campus hackathon, creating a mobile app aimed at monitoring energy consumption to promote efficiency among users.

- Analyzed user energy data using Excel to deliver actionable insights for reducing consumption.
- Collaboratively designed a user-friendly application interface compatible across multiple devices.
- Rendered visual presentations showcasing evolving iterations of the application throughout the event.
- Contributed actively to planning sessions focused on aligning team goals and techniques.
- Recognized for innovative contributions and practical problem-solving during final presentations.
- Enhanced team dynamics and fostered peer engagement while managing time effectively.

LEADERSHIP & AWARDS

- Dean's List, Georgia Institute of Technology, 2025
- First Place, Campus Hackathon, 2026

CERTIFICATIONS

- AI Programming with Python 📅 2026
- Computer-Aided Design Certificate 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, 2025 – Present
- Volunteer, STEM Outreach Program, 2025 – Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST