

DANILO KRGOVIC

ENGINEERING & TECHNICAL PROFESSIONAL | ELECTRICAL SYSTEMS | INFRASTRUCTURE | RELIABILITY |
CLOUD & DATA

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PROFESSIONAL SUMMARY

Engineering and technical professional with experience across electrical manufacturing, infrastructure evaluation, engineering research, data analysis, and AWS cloud technologies. Electronics Technician at G&W Electric supporting testing, troubleshooting, pilot builds, and validation of medium-voltage switchgear. Previous field-engineering experience includes 2,000+ property evaluations and 1,000+ technical reports for infrastructure and land-acquisition projects. Published research co-author and AWS Cloud Institute Cloud Application Developer graduate with AWS Certified Cloud Practitioner and AWS Certified AI Practitioner credentials.

CORE COMPETENCIES

Electrical Testing & Troubleshooting • Electrical Schematics • Root Cause Analysis • Reliability Support • Pilot Builds & FAT • Continuous Improvement • Engineering Analysis • GIS & Field Evaluation • Technical Reporting • Stakeholder Collaboration • AWS • Python • SQL • Data Analysis • Git/GitHub • JD Edwards ERP

PROFESSIONAL EXPERIENCE

G&W Electric | Bolingbrook, IL

Apr 2024 - Present

Electronics Technician

- Perform continuity, functional, software, and Hi-Pot testing on medium-voltage switchgear and troubleshoot electrical/electronic issues before Factory Acceptance Testing (FAT).
- Interpret complex electrical schematics and wiring diagrams and use structured troubleshooting to isolate wiring, software-configuration, and component issues.
- Support Trident, SF6, and other pilot builds; identified routing and termination improvements that were accepted by Design Engineering and implemented on units that subsequently passed FAT.
- Document design/manufacturing issues through the NSR process and collaborate with Engineering, Manufacturing, and Quality on corrective and continuous-improvement actions.
- Train new employees and serve as a technical resource for troubleshooting, pilot-build questions, and pre-FAT issue resolution; use JD Edwards daily.

G&W Electric | Bolingbrook, IL

May 2023 - Apr 2024

Assembler

- Built electrical switchgear and components to technical drawings, wiring requirements, procedures, and quality standards, developing hands-on knowledge of manufacturing flow and product construction.

IPK d.o.o. | Serbia

Apr 2021 - Feb 2023

Expert Associate - Forestry Engineering

- Conducted field investigations and engineering evaluations for road, railway, power-grid, mining, and other public-infrastructure / land-acquisition projects.
- Evaluated 2,000+ properties and prepared/co-signed 1,000+ formal technical reports supporting land-acquisition and compensation decisions.
- Used GIS, GPS field devices, survey coordinates, Excel, and Word for technical evaluation, mapping, calculations, and reporting; collaborated with government agencies, companies, property owners, lawyers, and courts.

Research Projects | Serbia

2021 - 2022

Research Assistant / Project Researcher

- Collected and processed primary field data for forestry-related research, including work connected with USAID- and FAO-funded initiatives.
- Supported interviews, questionnaires, data organization, analysis, technical documentation, and preparation of research findings.

EDUCATION

University of Belgrade - Faculty of Forestry, Serbia

Master of Science in Forestry Engineering, 2021 | Bachelor of Science in Forestry Engineering, 2018

CERTIFICATIONS & TECHNICAL EDUCATION

AWS Cloud Institute - Cloud Application Developer Graduate • AWS Certified Cloud Practitioner • AWS Certified AI Practitioner • Google Cybersecurity Certificate

SELECTED PROJECTS

- Project Sequoia - Engineering Portfolio: Designed and deployed danilokrgovic.com as a static AWS portfolio using a private S3 origin, CloudFront, ACM HTTPS, custom DNS, and case studies spanning electrical engineering, research, cloud, and data analytics.
- AWS Serverless Image Processing: Built an event-driven workflow where an S3 ObjectCreated event invokes a Python Lambda function to resize an uploaded image and store the processed file in a separate S3 bucket; used IAM and CloudWatch.
- NBA Season Analyzer: Built a Python/SQL analytics project to structure, query, and analyze NBA season data; source code published on GitHub.

RESEARCH & PUBLICATIONS

- Co-author, "Critical Success Factors of Small and Medium Enterprises in Forestry and Wood Industry in the Južnokučajsko Forest Region," Agriculture & Forestry, 2022.
- Co-author, "Cooperation and Business Networking of Small and Medium Enterprises in Forestry and Wood Industry in Južnokučajsko Forest Region," 2021.
- Master's research used interviews, benchmarking, Excel, and SPSS to study SME business processes and cooperation across the Južnokučajsko forest region.

INTERNATIONAL EXPERIENCE

- EIT Climate-KIC Journey Summer School - fully funded six-week international program at the University of Bologna, University of Trento, and ETH Zurich focused on sustainability, smart cities, and energy.
- Erasmus+ academic exchange - semesters in Finland and Romania.
- International Day of Forests workshop - FAO Headquarters, Rome, Italy.

LANGUAGES

Serbian - Native • English - Professional Fluency • Spanish - B1