Asatilla Abdukhakimov – CV

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Location: Gyeonggido, South Korea

Profile

As a Master's degree graduate in Engineering, I am skilled at translating complex data into actionable solutions for real-world problems. Working as both a Data Analyst and a field application engineer for camera module systems, I leverage my analytical and technical expertise while collaborating seamlessly with diverse teams. With over 10 publications, I am committed to continuous learning and embracing new technologies to stay ahead in my field.

Education

Kumoh National Institute of Technology — Master's in Electronics Engineering

GPA: 4.44/4.50 | 09/2017 – 08/2019 | Gumi, South Korea

• Thesis: Reliability Analysis of Distributed Cyber-Physical Energy Systems

Tashkent State Technical University — Bachelor's in Electronics and Automation

GPA: 87/100 | 09/2012 – 06/2016 | Tashkent, Uzbekistan

• Thesis: Noise Generator to Protect Information from Leaking through the Mobile Phone

Inha University — Korean Language and Culture

KIIP Level 5 | 09/2016 – 08/2017 | Incheon, South Korea

Professional Experience

HPK — Senior Engineer

11/2020 – Present | Gumi & Paju, South Korea

• Developed and prepared Management Buy-Off (MBO) reports valued at over $2 million over four years, ensuring quality and compliance through detailed evaluations of machinery and verification of performance against technical specifications.

• Performed data analysis, cleaning and visualization for Gage Repeatability and Reproducibility (GRR) reports, identifying anomalies and collaborating with engineering teams to resolve quality issues and drive data-informed process improvements.

• Skilled in precision testing for camera module calibration systems using oscilloscopes and gauges to ensure optimal performance. Trained engineers from partner companies in India, China, and Vietnam on machinery evaluations and MBO report preparation.

Laservall — Project Manager Assistant & Field Application Engineer
09/2019 – 03/2020 | Gumi & Suwon, South Korea

• Primarily responsible for technical management, including on-site support, report preparation, and solution proposals, while conducting real-time data analysis, contributing to the development of automated laser solutions with a specialization in laser jet soldering.

Skills
• Programming Languages: Python, R, SQL
• Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Plotly, SciPy
• Machine Learning: Scikit-learn, TensorFlow
• Mathematics: Linear Algebra, Calculus, Optimization, Analytics, Statistics, Probability
• Tools: Jupyter, Power BI, Excel
• Languages: English (Fluent), Korean (Fluent), Uzbek (Native)

Awards & Certifications
• Data Science Professional Certificate by IBM, October 2024
• Mathematics for Machine Learning Specialization by Imperial College London, November 2024
• Korean Speech Contest – Top Prize. Kyungpook National University, May 2019
• Award for Excellent Academic Achievement, Korean Government Scholarship Student – Dec. 2018

Publications

International Journal
• "Long-Range Wireless Tethering Selfie Camera System Using Wireless Sensor Networks", IEEE Access, vol. 7, pp. 108742-108749, 2019. DOI: 10.1109/ACCESS.2019.2933402

• "Reliability Analysis in Smart Grid Networks Considering Distributed Energy Resources and Storage Devices", International Journal of Electrical and Electronic Engineering & Telecommunications, Elsevier, 2019. DOI: 10.18178/ijeetc.181007

International Conference
• "Reliability Assessment for Ultra-reliable and Low Latency Communications in Cyber-Physical Energy Systems", ACM Mobihoc 2019, Catania, Italy.

• "A Reliability Perspective of Distribution Systems in Smart Grid Communication Networks", IEEE International Conference on Communication and Information Systems (ICCIS), December 28-30, 2018, Nanyang Technological University, Singapore.

• "Information Protection by Noise Generator for Tactical Smart Platforms", 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018

• "Reliability analysis for URLLC in Distributed Cyber-Physical Systems", 2019 Korean Institute of Communications and Information Sciences (KICS), Conference, June 19-21, 2019, Jeju Island, S. Korea.