

Karol Wojtyla

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Electronic Systems Engineer

PROFESSIONAL SUMMARY

I am a current Test Engineer and recent graduate of Texas A&M University with a degree in Electronic Systems Engineering. My interests lie in software development and information technology. I am committed to continuous learning and strive to optimize team efficiency through innovative problem-solving strategies. I am eager to apply my skills and contribute to impactful projects in dynamic environments.

EDUCATION



Texas A&M University

BS in Electronic Systems Engineering
Minor in Cybersecurity
August 2018 - May 2023

TECHNICAL SKILLS

- Software Design & Development using:
 - Python** - 3 years
 - Java & JavaScript** - 2 Years
 - C++ & C** - 2 Years
- AutoCAD
- Microsoft Office
- LabVIEW
- MATLAB
- Simulink
- Cisco Router Configuration

PERSONAL SKILLS

- Strong communicator and team player, adept at fostering collaboration within diverse teams.
- Proactive problem-solver committed to delivering innovative solutions.
- Professional proficiency in Spanish and English, facilitating seamless communication.
- Skilled in both independent work and collaborative environments.
- Detail-oriented multitasker, capable of managing multiple tasks efficiently.

AWARDS & CERTIFICATIONS

- Yellow Belt Certified in Lean Six Sigma
- State Superior in AutoCAD, Skills USA

RELEVANT COURSEWORK



- Embedded Systems Software
- Advanced Network Systems and Security
- Wireless Transmission Systems
- Electronics Testing
- Control Systems

PROFESSIONAL EXPERIENCE



Test Engineer

Flex Ltd. | August 2023 - Present

- Provided dedicated support and assistance for integrating new customers into the manufacturing facility.
- Managed the assembly, calibration, and upkeep of various testing equipment tailored for specific tests and printed circuit board assemblies (PCBAs).
- Proactively identified inefficiencies pertaining to the testing of PCBAs through black-box engineering of customer software and equipment, consistently increasing yields.
- Directed and trained engineers, technicians, and operators in testing procedures, emphasizing safety compliance and operational protocols.
- Ensured the attainment of daily and monthly testing and production targets through effective organization and leadership, including conducting meetings and task list generation.
- Produced comprehensive documentation detailing testing equipment, encompassing test manuals, calibration processes, and maintenance procedures.



Facilities Engineer Intern

Flex Ltd. | May 2022 - August 2022

- Utilized AutoCAD to create and update one-line drawings and as-builts for the 1.5 million-square-foot facility's mechanical systems, contributing to the optimization of site maintenance logistics.
- Led and participated in meetings to streamline project planning and strategize site maintenance logistics with effective collaboration and problem-solving skills.
- Automated historical expense report compilation using Excel for facility management with proficiency in data analysis.
- Acquired proficiency in automation controls programs and programming for facility maintenance tasks, which was enhanced by my software engineering experience.



Software Developer

Proactive Patents | July 2020 - August 2022

- Developed sophisticated automated programs in Python, leveraging a top-down approach to optimize inefficiencies in the existing patent documentation process, in line with solving unique, large-scale technical problems.
- Led and contributed to project planning meetings, gaining insights into the analysis of patent documentation and translating these processes into programmatic solutions, demonstrating proficiency in data analysis and software engineering.
- Implemented Python solutions to enhance portability of developed applications across various operating systems, aligning with the need to build high-volume servers and work on impactful technical challenges.

PROJECTS



Autonomous Pollination Drone

Texas A&M University Capstone Project/Senior Design Project | August 2022 - May 2023

- Spearheaded a diverse team as the lead software engineer in the development of a fully autonomous drone, impacting next-generation systems and products.
- Orchestrated the design, development, and implementation of the software solution in Python, showcasing my proficiency programming languages and frameworks.
- Engaged proactively in meetings to set project objectives, address challenges, and collaborate with team members to devise innovative solutions, reflecting my ability to work independently and as part of a collaborative team to solve complex technical problems.



Calculator Android App

Self-Development Practice Project | June 2023

- Developed a straightforward four-function calculator application using Java within Android Studio, without prior familiarity with the software or Android application development. The application is accessible here: <https://github.com/KarolWojtyla333/CalculatorProject>