Ugurcan Sonmezoglu

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SUMMARY

Mechatronics Engineer, Software Developer, and Assistant General Manager with a strong background in complex algorithm design and operational leadership. Graduated from the 100% English Mechatronics Engineering program at the University of Turkish Aeronautical Association. Currently pursuing a Master's degree in Computer Animation and Game Technologies at Hacettepe University. Expertise spans across constraint programming, data structures, computational geometry, and artificial intelligence.

EXPERIENCE

Assistant General Manager

MicroQBit LLC. a subsidiary of Certusoft Inc.   **April 2024 - Present**

· Coordinated technical operations and engineering projects by integrating software automation tools and cross-functional team frameworks to meet project milestones while supporting global company objectives.
· Lead engineering teams while continuing to act as a hands-on software developer for complex technical projects.
· The API developments for SolidWorks, Creo, and NX CAD softwares.
· Manage comprehensive software development lifecycles, team coordination, and strategic management tasks.

Software Development and Delivery Manager

Certusoft Inc.   **March 2023 - April 2024**

· Designed complex, innovative algorithms and developed math-intensive software.
· Utilized numerical optimization techniques, computational geometry, and coordinate transformations.
· Developed APIs and applications using VB.Net, Java, and created APIs for Siemens NX and SolidWorks.
· Provided team leadership and project delivery management.
· Developing products for leading companies in the industry in the United States.

Software Development and Design Engineer

Certusoft Inc.   **June 2022 - March 2023**

· Developed software code for computational geometry, automated 3D modeling, and computer graphics applications.
· Created algorithms and code for the computational graphics handling of web-based automotive applications and 3D models.
· Managed data configuration rules, debugging, and constraints.

QA and Project Engineer

Fore International Co. Inc.   **August 2021 - February 2022**

· Conducted design, planning, testing, training, and quality control for a pre-earthquake building motion detection project.
· In the project carried out in collaboration with the Ministry of Environment, Urbanisation and Climate Change and the AFAD team, to conduct training, installation, and engineering fields.
· Conducting quality control, product testing, and product development.

Aptitude Tests for Turkish Airlines Pilot Training Candidate

Turkish Airlines   **August 2019 - February 2021**

· Successfully passed multiple talent stages including TOEFL, DLR-I; the process halted due to the global pandemic.
· Demonstrated strong cognitive and psychomotor skills, including spatial awareness, multi-tasking, and rapid decision-making under pressure.
· Engaged in rigorous self-studying and analytical preparation methodologies to meet the strict technical and psychological requirements of the aviation industry.

Intern

Robos Engineering   **June 2019 - July 2019**

· Completed a software and management internship in an AGV manufacturing company.
· Gained hands-on insight into the navigation, control algorithms, and sensor integration used in Automated Guided Vehicles (AGVs).
· Collaborated with the production team to observe the seamless integration of mechanical systems and software components in manufacturing workflows.

Intern

Mramor Kurtes Soba LLC.   **June 2017 – September 2017**

· Completed a production internship focusing on sheet metal bending machines and parts.
· Assisted in analyzing manufacturing processes and quality control procedures to ensure precision in sheet metal fabrication.
· Observed the operation, calibration, and maintenance of heavy industrial machinery, gaining practical insight into mechanical design limitations.

Intern

Ankatech Information Technology LLC.   **June 2016 – August 2016**

· Assisted with computer consulting activities, network solutions, electrical infrastructure, and structured cabling.
· Supported the technical team in troubleshooting hardware and software issues, contributing to improved system reliability for clients.
· Participated in the physical installation, configuration, and testing of network infrastructures in alignment with technical specifications.

EDUCATION

Master's Degree in Computer Animation and Game Technologies

Hacettepe University · 2027

Bachelor of Mechatronics Engineering (100% English)

University of Turkish Aeronautical Association (UTAA) · 2019

CERTIFICATIONS

DriveWorks Pro Training

2024

UAV Unmanned Aerial Vehicle Pilot Certificate

2021

Siemens TIA Portal Training

2021

THK – FAI Model Plane

2019

Iki Teknik Bilisim Catia Training

2018

SKILLS

Java, VB.Net, Python, SQL Database, JSON, Nested Data Structure, API Development, Service Apps, Form Apps, Automation Softwares, RabbitMQ, Backend Development, WordPress, Excel VBA

Constraint Programming , Computational Geometry , Artificial Intelligence , Data Structures , 3D Visualization, Solidworks, NX, Creo, 3D-Tools, Meshlab, GitKraken, Git, PDM Structure and Management

Global Team Coordination , Financial Management , Project Management , Engineering Team Leadership, Human Resources, Information Technology