

# Ugurcan Sonmezoglu

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## SUMMARY

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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 constraint programming, data structures, computational geometry, engineering, software development and artificial intelligence. Six Sigma Green Belt certified from the Kennesaw State University, strengthening a process-driven, results-oriented approach to management and project delivery.

## EXPERIENCE

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### **Assistant General Manager** *MicroQBit LLC, a subsidiary of Certusoft Inc.*

April 2024 - Present

- Coordinate technical operations and engineering projects, 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.
- Develop APIs for SolidWorks, Creo, and NX – CAD and CAM software.
- Manage comprehensive software development lifecycles, team coordination, and strategic management tasks.
- Provide technical support and manage project coordination processes for a global client portfolio spanning the Americas, Europe, and Asia.

### **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 and Java, including custom APIs for Siemens NX and SolidWorks.
- Provided team leadership and project delivery management.
- Developed products for leading companies in the United States.

### **Software Development and Design Engineer** *Certusoft Inc.*

June 2022 - March 2023

- Developed software for computational geometry, automated 3D modeling, and computer graphics applications.
- Created algorithms 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.
- Collaborated with the Ministry of Environment, Urbanisation and Climate Change and the AFAD team on training, installation, and engineering activities.
- Performed quality control, product testing, and product development.

### **Aptitude Tests for Turkish Airlines Pilot Training Candidate** *Turkish Airlines*

August 2019 - February 2021

- Successfully passed multiple selection stages, including TOEFL and DLR-I; the process was 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-study and analytical preparation 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 at 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 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 infrastructure in alignment with technical specifications.

EDUCATION

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|-------------------------------------------------------------|------|
| Master's Degree in Computer Animation and Game Technologies | 2027 |
| Hacettepe University                                        |      |
| Bachelor of Mechatronics Engineering (100% English)         | 2019 |
| University of Turkish Aeronautical Association (UTAA)       |      |

CERTIFICATIONS

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|---------------------------------------------------------------|------|
| Six Sigma Green Belt Certification, Kennesaw State University | 2026 |
| 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

**Software:** Java, VB.Net, Python, CLIK, SQL Database, JSON, Nested Data Structures, API Development, Service Apps, Form Apps, Automation Software, RabbitMQ, Backend Development, WordPress, Excel VBA, Git, GitKraken

**Engineering:** Constraint Programming, Computational Geometry, Artificial Intelligence, Data Structures, 3D Visualization, SolidWorks, NX, Creo, CAD and CAM, Automation Process, 3D Tools, MeshLab, PDM Structure and Management

**Management:** Global Team Coordination, Financial Management, Project Management, Engineering Team Leadership, Human Resources, Information Technology, Lean Six Sigma Green Belt