Tayfun AYDINÖZ

Software Developer |
Former Mechanical
Design Engineer

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About Me

Mechanical Design Engineer with 3+ years of experience in R&D. Proven ability to contribute to projects from initial design concepts to production and testing phases. Passionate about software development, particularly in the context of 3D printers. Seeking a Master's degree in software development to further my expertise.

Seeking a software development position in an R&D center where I can tackle new challenges, foster my professional growth, and make meaningful contributions to the field. Excited about the prospect of working in innovative R&D environments while focusing on software development as my primary area of interest.

Relevant Skills

- Java | Python | C/C++
- Git | GitHub
- MySQL
- OOP
- Data structures
- Web Scraping

- Problem-solving
- Communication
- Collaboration
- Time management
- Adaptability
- Strong Analytical
- Teamwork

Relevant Software

- Visual Studio Code
- IntelliJ IDEA
- Eclipse
- Java Swing

- Microsoft Office
- Matlab&Simulink
- Ultimaker Cura

Work Experience

Mechanical Design Engineer
Self-employment
May 2023 to August 2023 (4 months)

- 3D FDM Printer Design and Production.
- Calibration and Technical Support for 3D printers
- Mechanical Design for Diode Laser Production

Second Lieutenant (Mechanical Design Engineer)
Turkish Army (43rd Maintenance Factory Directorate), Compulsory Military Service
May 2022 to May 2023 (1 year)

- Calibrated software on RepRap and 3D printer material calibration
- Designed an Industrial 3D printer that has 5oox5oox500 mm3 build area
- It was fully tested and delivered to the Turkish army before finishing the military service

Mechanical Design Engineer

Inovasyon Muhendislik, a company that provides Industry 4.0 solutions like AMR robots
July 2020 to April 2022 (1 year, 10 months)

- Calibrated Marlin software and 3D printer material calibration
- Designed AMR Robots that can carry 100kg, 750kg, and 1500 kg weight
- Designed Autonomous Charge Stations for AMR robots that I designed
- Designed the Conveyor System and Material Handling Apparatus for the Demo of these AMR Robots
- Designed FDM 3D printer that has 1ooox8oox350 mm3 printing area
- Used FEA to make sure designs are valid before production
- Prepared necessary production files for the designs
- Worked on Cabling Management on AMR robots and provided technical support during the testing process

Mechatronics Engineer Intern

ACD Bilgi Islem
July 2019 to August 2019 (1 month)

- Designed Industrial PLC Enclosures for I/O systems
- Created the prototype by using the 3D Printer.

Assistant Technician

Profen Defence Technologies
July 2017 to August 2017 (1 month)

- *learned the IP assıgnements for 360° cameras*
- *learned cable management for military shelters*

Mechatronics Engineer Intern

Profen Defence Technologies
June 2017 to July 2017 (1 month)

- *learned the production of special cables for shelters*
- *learned to manage the integration process*
- *learned how to solve problems in projects*

Education History

Bachelor of Science in Mechatronics Engineering

Institution: The University of the Turkish
Aeronautical Association
Year of Graduation: 2019

- I graduated with a 3,16/4 GPA as a 3rd in the department.
- Honour Student
- 100% Scholarship
- 100% English Education

Certificates

İleri Seviye Java
(Advanced Java)
BTK Akademi
August 2023
Credential ID: BozfGPl9GD
Relevant Skills :

- Java
- Spring IoC, Spring Boot, Rest API
- Spring AOP, JPA, Hibernate
- Layered architectures

JAVA İle Programlamaya Giriş
(Introduction to Programming with JAVA)
BTK Akademi
August 2023
Credential ID: BozfGPl9GD
Relevant Skills :

- Java
- Java Swing
- Object-Oriented Programming (OOP)
- Design Patterns

Versiyon Kontrolleri: Git ve GitHub
(Version Controls: Git and GitHub)
BTK Akademi
August 2023
Credential ID: GoDfnNVoLx
Relevant Skills :

- Git&Github Repository
- Version Control

Sıfırdan İleri Seviye Python Programlama
(Advanced Python Programming from Scratch)
BTK Akademi
August 2023
Credential ID: bx1hGqM7oD
Relevant Skills :

- Python (Programming Language)
- Pandas | NumPy
- MySQL | NoSQL | MongoDB
- Web Scraping | Django | PyQt

Education
Blue Card Network Credential
July 2023
Credential ID: 538064