Cankat AYKURT

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EXPERIENCE

Lead R&D Engineer, FNSS Defense Systems Inc.

📍 Ankara, TR   08.2016 – Present

- **Optionally Manned Ground Vehicle Project Leader**   11.2018 - 06.2019
  - → Lead both local and remote teams to design, procure, integrate and test a remote control system on an M113 vehicle for technology demonstration. The outcome of the project was presented at IDEF'19.
    https://youtu.be/SmOM-M41Uq8
    https://www.armyrecognition.com/idef_2019_news_online_show_daily_defense_exhibition_turkey/idef_2019_fnss_presents_shadow_rider_to_the_turkish_armed_forces.html

- **Software Projects Technical Leader**   08.2016 - Present
  - → Lead both local and remote teams to conduct various small scale R&D projects for electronics systems and software infrastructure for test and verification tasks. Leading includes identification of the product needs, initialization of the projects, design, development and test phases. Professional Scrum Master (PSM I) certificate was acquired during these projects.
  - → Proactively initiated, developed, delivered and granted 25k USD government incentive for a generic emulator and user software project for military land vehicles after completion of successful referee reviews. Published a paper about the study in National Software Engineering Symposium.

- **Lead Test & Verification Engineer**   08.2016 - Present
  - → Planned, lead and reported various sub-system and system level tests for both tracked and wheeled military land vehicles manufactured by FNSS. Instrumented, conducted Mortar Firing Verification Tests in Malaysia and Mine Blast Verification Tests according to NATO AEP-55 in Turkey.

- **Value Engineering Studies**   01.2017 - 12.2017
  - → Identified and initiated smart cost reduction value engineering tasks. 137k USD opportunity was identified for an ongoing local contracted project. 38k USD opportunity was captured as of 2018. Won a recognition award for the study and the companies golden suggestion award for 2017.

Key Learnings: Product management; Leading small teams; Prototyping; Experimentation; Design verification; Scrum; Value engineering

Senior R&D Engineer, FNSS Defense Systems Inc.

 Ankara, TR   12.2013 – 08.2016

- Designed and developed embedded software for vehicle ECUs, virtual dashboard software for driver and commander displays and various remote diagnostics & control GUI software.

- Developed various embedded and emulator software for Malaysia AV-8 project, PARS-III vehicle, Sharpshooter 25mm Turret Weapon Control Card and Servo Stabilization Card.

- Proactively became an active design and development contributor of 3 government incentive granted projects. (ACV New Generation Power Pack (3130930), and Mobile Positioner (3150016) and Rapid GUI Generator (3160015).

Key Learnings: Electrical and electronics infrastructure of military land vehicles; Embedded software development; Government incentives

R&D Senior Software Engineer, Havelsan TR

 Ankara, TR   04.2011 – 12.2013

- Assigned as a engineering consultant to Aselsan MGEO (Microelectronics, Guidance and Electro-Optics) R&D Department software development projects.

- Designed, developed and delivered various emulator, simulator and user software for National Warship, Coast Guard Search and Rescue, New Type Patrol Boat, National Marine Cannon Fire Control System and Helicopter Electronics Warfare Support Center.

Key Learnings: Software project management; Military software for marine, avionics and land systems; Emulators; Simulators; SPMP; SRS; SDD; STD

R&D Software Engineer, GRI Elektronik

 Ankara, TR   12.2008 – 06.2010

- Designed, developed and delivered government supported projects for technical and vocational high school laboratories at METU Technopolis.

Key Learnings: Software development life cycle; Startups; New product development

EDUCATION

Ph.D. Candidate, Remote Sensing / GGIT
Middle East Technical University (METU), Ankara, TR
2015 – Ongoing

ENGINEERING	ECONOMICS & MANAGEMENT
M.Sc., Computer Engineering *High Honor Degree* Middle East Technical University, TR 2013 – 2015	**M.Sc., Engineering Management** Middle East Technical University, TR 2009 – 2012
B.Sc., Electrical-Electronics Engineering Başkent University, TR 2003 – 2008	**B.Ec., Economics** Anadolu University, TR 2011 – 2015

CERTIFICATIONS & EXAMS

Professional Scrum Master (PSM I): (see. https://www.scrum.org/user/221144)

Other acquired certifications and required exam grades are **available on request**.

SKILLS & EXPERTISE

Languages:	**English:** Fluent **Turkish:** Native
Computer:	**Languages, IDEs & Applications:** Visual C#, C/C++, MATLAB, Java, Python, XML/XSL/XSD, HTML/CSS, SQL, LINQ, UML, DevExpress, Atmel Studio, Eclipse, IntelliJ, Tcl/Tk, National Instruments LabVIEW, Doors, SVN, Dewesoft.
	Communication: Serial (RS-232/RS-422), Ethernet (TCP/UDP), CAN Bus (J1939/MilCAN), MIL-STD-1553.
Standards:	IEEE 1058 SPMP, IEEE 830 SRS, MIL-STD-498, IEEE 1016 SDD, IEEE 829 STD, MIL-STD-810G, NATO AEP-55.

PUBLICATIONS

Aykurt, C., "Development of Rapid Software User Interface for Testing on Military Land Vehicles", 11th National Software Engineering Symposium (UYMS), 2017 (In Turkish)

Aykurt, C., "A Software Model for Diagnosis of Data Streams on Communication Networks", METU Computer Engineering M.Sc. Thesis Study, 2015

Aykurt, C., Parlatan, F., "Procurement Type Analysis for Tank Fire Control System", METU Industrial Engineering, Engineering Management M.Sc. Study, 2012

WHAT GETS ME GOING

Multi-disciplinary work, sense of responsibility, taking initiative, challenge in reputed environments, thriving for high quality products and results, courtesy and professionalism.

References and letters of recommendation are **available on request**.

- *What else?*

Literature: *Enthusiastic about both reading and writing. Written short stories and poems are ready to be published.*

Diving: *Holding "One Star Diver" license from CMAS and "Open Water Diver" license from PADI.*