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# AYHAN AK

29 July 1984 | Military Completed | B-Class Driving License | Married

**6+ years** of experience of Team Leading and Project Management, **11+ years** of experience in Software Engineering, IoT, Web Technologies, Embedded Systems and Research & Development (R&D)

- Having strong background with IoT, Industry4.0, Research & Development, Software Engineering, Design & Testing, Patterns & Architectures, Mobile and Cloud apps, Electronics and Embedded Systems.
- Experienced in development methodologies like Agile, Scrum, V-Model and CMMI-DEV.
- multi-site and multi-national projects (with BOSCH, SIEMENS, SONY, SAMSUNG and MEDIATEK etc...) on different phases like planning, design, development, testing and maintenance.
- Confident on transferrable skills on leadership, team spirit, intercultural awareness, communication, easy to adapt and change, positive attitude, sustainable process and growth orientation.
- Creative Innovator, Patent holder and several times awarded across company
- Having fun with technology, digital life, business transformation

## PROFESSION & SKILLS

- Strategy & Goal setting, Interdisciplinary communication and presentation skills,
- Leadership and Team Management, coaching and mentoring by technical leadership to team members
- Project & Portfolio Management skills, Budget & Resource Management, Change Management, communication oriented and well-disciplined result-driven execution w/o forgetting innovation aspect, having agile and growth mindset.
- Deep understanding of Digital Transformation and Change management, IT & OT Integration, Production technologies

## EXPERIENCES

### • SENIOR PROGRAM LEAD – INTERNET OF THINGS (Current)



Aug 2016 ~ Continues / Arçelik Global – Central R&D

[#programmngmt](#) [#lead](#) [#strategy](#) [#roadmap](#) [#iot](#) [#smarthome](#) [#digitaltransformation](#) [#homewhiz](#) [#aws](#) [#alexa](#) [#drs](#) [#recurringrevenue](#) [#data](#) [#rdbms](#) [#mysql](#) [#sensors](#) [#machinelearning](#) [#ai](#) [#industry4.0](#) [#production](#)

- developing and implementing **IoT strategy** for new connected products across the globe and attaching into vision of Connected Living and Smart Home
- managing Smart & Connected **Home Solutions project portfolio** and short- long term **roadmap**
- actively **originate, shape, create** digital concept, business case and system structure
- **managing** program resources and budget
- **leading** cross-functional teams to innovate and create platforms for standards in design & security of products
- **awarded** internationally by IFA17 for HomeWhiz Interconnected Home Solutions
- **certified** Amazon DRS and Alexa services into Dishwashers and Washers

### • HEAD OF SOFTWARE DEVELOPMENT

B/S/H/

Mar 2014 ~ Aug 2016 / BSH Home Appliances – Regional R&D (T-MEA-CIS)

[#global](#) [#lead](#) [#teamsetup](#) [#software](#) [#quality](#) [#design](#) [#testing](#) [#embedded](#) [#production](#) [#homeconnect](#) [#cmmi](#) [#process](#) [#requirement](#) [#java](#) [#.net](#) [#c/c++](#) [#python](#) [#ni/crio](#) [#testautomation](#) [#svn](#) [#jenkins](#)

- **Built and Developed** teams for Development, Testing and Production, Quality and Maintenance activities in Cooling Electronics for regional and global responsibilities in BSH network
- **Lead** change, taking over new responsibilities, **first** design/development at BSH R&D Region Turkey
- **Responsible** for HomeConnect (Smart Home Appliances) implementation and regional reqm's
- Aligning team's workload –force –time together with global Marketing and Development Architecture **strategy**
- Managed Development Process transition with CMMI-L3 certification

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## • SOFTWARE DESIGN GROUP LEAD

Jun 2011 - Mar 2014 / Arçelik A.Ş. Electronics Business Unit – R&D



#lead #software #c/c++ #embedded #production #android #ios #mobileapp #tvapps #smarttv #java #webhtml #javascript #linux #driver #kernel #cmmi #process #requirement #architecture #stb #video #vod #hbb

- **Lead** User Interface and Applications Group most innovative group in dept. with 7 patent filings and 2 new development in 2013.
- Multi-project and resources, tracking daily activities, mentoring and coaching team members parallel balancing workload-time
- **Lead** project of "Software Stack and Architecture Development for TV&STB products" and development team. Core-Team created system requirements, rules and architecture, and block templates of sample development environment for the rest of SW Team.
- **Lead** Mobile App Development team and projects.
- **Awarded** as "Creative Innovators", project "Provide Digital PVR Feature to LCD TVs"

## • SOFTWARE DESIGN ENGINEER

Apr 2008 - Jun 2011 / Arçelik A.Ş. Electronics R&D



#software #c/c++ #smarttv #stb #embedded #production #dvb #linux #scripting #ui #qt #directfb #opensource

- **Developed** Embedded TV Applications through DVB standards to achieve international certifications with C/C++ languages and scripts
- **Created** system and software requirements, made decision on system architecture and design, implementation on reference boards, debug and test the system

## • SOFTWARE TEST & VERIFICATION ENGINEER

Jul 2007 - Apr 2008 / NETAŞ - Nortel Networks Telecom – R&D



#software #c/c++ #telecom #testautomation #scripting #linux

- **Developed** Test automation with C/C++ languages and shell scripting on Linux environment
- Performed ONT testing, followed test results and change activities
- Experienced SS7, signaling, ISUP, CS2K technologies

## LANGUAGES

- **Turkish:** Native
- **English:** Advanced, Business level
- **German:** Conversational

## EDUCATION

### • Master Sc. in Electronics Engineering

Jan 2009 - July 2013 / Istanbul Technical University - İSTANBUL

- Lectures are over. MSc Thesis not finished.



### • Bachelor Sc. in Electrical and Electronics Engineering

Sep 2002 ~ Jun 2007 / Dokuz Eylül University - İZMİR

- BSc Thesis: Standalone MP3 Player Prototype: <http://www.ayhanak.com/projects/aypod/>



## HONORS & AWARDS

- Home Interconnected Solutions Innovation Gold Award - HomeWhiz App / IFA2017
- Patent Filing and award at B/S/H/ Home Appliances - 2014
- Patent Award in XV. Arçelik Innovation Day - 2013
- "Special Award" for being First developer for Voice Recognition featured for Grundig branded TV Sets. - 2012
- "Special Award" for being First developer of Android Apps published in Google Play on behalf of Arçelik AŞ "Grundig TV Remote", "Beko TV Remote", "Arçelik Akıllı Kumanda" apps. - 2011

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- Team Award "Creative Innovators" with "Provide Digital PVR Feature to LCD TVs" - 2011
- Patent Award in XII. Arçelik Innovation Day - 2010
- Team Award "Creative Innovators" with "Wide-range USB Multimedia Player Design for TVs" - 2009
- "2nd Rank" Project Award and "Best" Presentation Award with Undergraduate Thesis of "Portable Standalone MP3 Player" among 40 projects - 2007

## PATENTS

- (Brand New Application) - OPERATING A CONNECTED HOUSEHOLD APPLIANCE
- (WO2011154437) A DIGITAL BROADCAST RECEIVING DEVICE HAVING AN ON-SCREEN DISPLAY MENU
- (WO2014102326) A VIDEO RECORDING DEVICE COMPRISING A TIME SHIFTING UNIT
- (WO2014102115) A VIDEO RECORDING DEVICE
- (WO2014102360) A VIDEO RECORDING DEVICE

## CERTIFICATIONS

- Certified Scrum Master (CSM) – Scrum Alliance / 000442472 – Aug 2015



## SEMINARS & COURSES

- Leadership Journey Program – Arçelik – Mart 2018
- Finance and Budget Management – Arçelik – Nov 2017
- Managing High Performing Teams – B/S/H - Mar 2015
- Intercultural Awareness and Leadership – B/S/H/ - Feb 2015
- Performance Management – B/S/H/ - Dec 2014
- International Certified Advanced Scrum - ACM - Sep 2014
- Finance and Budget Management - B/S/H/ - July 2014
- keystones of Management - B/S/H/ - Jun 2014
- Management Simulation - Ekser Consulting - Oct 2013
- Design Patterns and Architectural Development – ACM Consulting - Oct 2013
- Leadership and Effective Team Management - Ekser Consulting - Sep 2013
- UML and Object-Oriented Design – CSistem ve Programcılar Derneği – May 2013
- International Screen Design and Usability - UXServices - Dec 2012
- Design Failure Mode and Effect Analysis (D-FMEA) - Arçelik - Apr 2012
- Design Patterns and OOP - SIEMENS / Alper Asma - Dec 2011
- Project Management - FABE - June 2011
- Time Management - TMI - Apr 2009

## VOLUNTEERING & SOCIAL ACTIVITIES

- Volunteer member of JCI Bahçeşehir and ÇEKVA (Çorum Eğitim Kültür Vakfı)
- Blogger on my personal website [www.AyhanAK.com](http://www.AyhanAK.com)
- Digital Photography, Nature and Human
- Drawing and painting, Realist and Perspective