

Personal Details

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Profile

I am a technology enthusiast who is in love with innovation in the high-tech industry and believes in the power of networking and connecting with people leading to fruitful collaboration.

As an aerospace engineer with a PhD degree in mechanical engineering, I have 16 years of experience in international project teams in the aviation and automotive sectors. My background gave me the opportunity to gain knowledge about:

- Both startup and corporate company cultures
- Turning an idea into a sellable product
- Leadership with an entrepreneurial mindset.

Now as a part of the Bright Society team, I am combining my passion for technology and people to help young PhD graduates discover their true potential, follow their dreams, skyrocket their career and go above and beyond.

Language Skills

Turkish (Native), English (Fluent), Dutch (B1), Portuguese (A2), Spanish (Beginner)

Education

- Doctor of Philosophy (PhD) in Mechanical Engineering, FEUP, University of Porto, Portugal, 2013
- Master of Science (MS) in Aerospace Engineering, METU, Turkey, 2008
- Bachelor of Science (BS) in Aerospace Engineering, METU, Turkey, 2005

Work Experience

MANAGER

2021 - PRESENT

BRIGHT SOCIETY, THE NETHERLANDS

Bright Society is a talent incubator, facilitating young Bright people to boost their early career. During a 3-year program these young academics, all with a PhD degree, discover their passion and talent. Through intensive guidance, facing challenges in a variety of companies they experience true inspiration.

1. Management of an international team of engineers based on servant leadership principles.
2. Acquisition and guidance of PhD graduates who would like to pursue a career in the high-tech industry.
3. Business development in the high-tech industry with a focus in Randstad and Noord-Holland.
4. Supporting Bright Institute activities.

BOARD MEMBER/VICE-CHAIR

2017 - 2019/2021 - PRESENT

KIVI INTERNATIONAL ENGINEERS (KIE), THE NETHERLANDS

1. Organizing international events about diverse engineering applications and trends.
2. Networking with innovation and technology enthusiasts as a KIVI/KIE representative for collaboration and community building.
3. Preparation of AI innovation series as a part of KIE 2022 event agenda.

PRODUCT INNOVATION PROJECT MANAGER
ZF GROUP, THE NETHERLANDS

2018-2021

1. **AEROFLEX Project Manager** (Aerodynamic and Flexible Trucks for Next Generation of Long Distance Road Transport, EC Horizon 2020), responsible for:
 - Design, development and integration of fourteen aerodynamic innovations.
 - Planning and execution of laboratory and demonstrator vehicle tests.
 - Financial, periodic and technical reporting.
 - Active participation as company representative at executive board, general assembly, sounding board meetings with international project partners and OEMs.
 - Successful management of Covid-19 impact in project deliverables, roadmap and timeline.
 - Leading two spin-off innovation projects towards serial production.
2. **Innovation Project Lead** for next generation technologies within Energy Efficiency, Advanced Driver-Assistance Systems (ADAS) and Autonomous Driving (AD) roadmap, responsible for:
 - Diligent, proactive, systematic and structured management and execution.
 - International and multidisciplinary teams performing in unity, harmony and synergy.
 - Successful project pitch deck proposals at monthly innovation committee meetings.
 - Technology overview, competitive landscape and prior art research.
 - Risk assessment, innovation validation plan and S-FMEA analysis.
 - Communication with business development, sales and marketing teams and translating their requests to technical design teams (bridging/connector role).
 - Design, development, test and implementation of prototypes becoming functional proof of concepts ready for successful handover to series production.

SENIOR AEROSPACE ENGINEER/EMPLOYEER
TMC PHYSICS, THE NETHERLANDS

2013-2018

1. Lean Six Sigma Green Belt Certificate holder.
2. Organizing workshops about "Flight Simulators", "Carbon Footprint" and "Entrepreneurship".
3. The Royal Netherlands Society of Engineers (KIVI) International Engineers (KIE) vice-chair.
4. KlimaatGesprekken (part of Carbon Conversations) technical support and pitch speaker.
5. Recipient of Employeership Award 2016.

Mechatronic control systems consultant (via TMC)
Marilogic B.V., The Netherlands

2018

1. Perform detailed investigation and design improvement activities for a maritime and offshore automation project (confidential):
 - Identify the performance issues of the hydraulic and mechanical system controllers
 - Define & propose improvements. Verify & validate with a comprehensive test schedule.

Flight simulation engineer (via TMC)
CAE Commercial flight training, The Netherlands

2015-2017

1. Successful qualification of B737-800W NG Level-D full flight simulator for Quadrant Systems, UK.
2. Subject matter expert for the control loading software and hardware systems:
 - Mentor junior system engineers in B737 and A320 projects.
 - Prepare and present the preliminary design document with detailed system descriptions and interface matrix design for the B737 control loading update project.
 - Develop control loading test environment and methodology for the B737 project.

- Develop control loading model software and conduct system implementation, integration, testing and validation, both in the lab environment and in the full flight simulator.
- Perform flight model development and aircraft systems investigation and improvement activities for the B737, Cessna Citation Jet/M2 and B777 projects.

**Integration and stress engineer (via TMC)
Fokker Aerostructures B.V., The Netherlands**

2014-2015

1. NH90 Program, Integration Engineer

Manage a pilot project to identify and select a multi-body dynamics analysis software tool for the development of a new landing gear ground load model and user interface for the NH90 helicopter. Run a detailed evaluation analysis, make an effective presentation to higher management for the go/no-go decision of the pilot project with a successful result.

2. Technology Group Core Engineering Department, Stress Engineer

Identify/carry out the key experiments necessary for the validation of the numerical predictions for different carbon-fiber composite materials with various laminate stacking sequences. Virtual testing tool implementation/validation using ABAQUS.

**Application engineer (via TMC)
Moog B.V., The Netherlands**

2013-2014

1. Participate in the development of the flight control loading model within the control loading team for the Boeing 767-777 simulator projects.
2. Test and tune the control loading system software and hardware for the NH90 helicopter simulator and Boeing 767-777 simulators.

RESEARCHER/PHD CANDIDATE

2009-2013

INEGI - Institute of Science and Innovation in Mechanical and Industrial Eng, PORTUGAL

1. Involved in the iComp project (integrated method for structural design of composite components) between INEGI and AIRBUS.
2. PhD thesis title "Stress Gradient Effects in Laminated Composites", funded by AIRBUS.
3. Active participation, publication and presentation at international conferences and AIRBUS events.

SPECIALIZED SYSTEM ENGINEER

2005-2009

HAVELSAN INC- Full Flight Simulator and Training Systems, TURKEY

1. Maintain and communicate requirements, allocate requirements among subsystems, and assure compatibility among subsystems so that the product ultimately meets its final objectives
2. Participate in the flight data collection project for the Turkish Navy Sikorsky Seahawk helicopter. Participate in generation, control and verification of the Sikorsky Seahawk and Blackhawk simulation models.
3. Perform tuning, testing and validation activities of the Blackhawk and Seahawk control loading systems.
4. Participate in description, implementation and test activities for the malfunction and emergency procedures of the Blackhawk and Seahawk helicopter systems.
5. Participate in development of the qualification test procedures of the Blackhawk and Seahawk full-flight simulators based on Joint Aviation Requirements (JAR) for Level-D simulators.

Software Skills: Latex, Python, MS Office, Linux, Matlab/Simulink, MSc Adams, C++, Abaqus.

Hobbies:

- Argentine Tango (as a dancer, DJ, teacher)
- Pilates, Gyrotonic, Yoga
- Reading (with a focus on history, philosophy and psychology)
- Personal development (via podcasts, interactive training and video lectures).