ELIHAY AMSELEM

Zikhron Yaacov, Israel, +(972) (0) 545607275

eamselem@gmail.com www.linkedin.com/in/elihay-amselem

PROFILE

An ambitious and motivated system engineer with over 7 years of deep expertise in integrated HW & SW sensing systems in multi-disciplinary engineering fields, particularly in acoustics, RF & magnetic sensors. Currently working in General Motors (GM), as a Radar system engineer responsible in rolling out a scalable radar system for GM retail autonomy programs. A qualified electronics engineer, with a master's degree (M.Sc.) in management of Information Technology, from Tel Aviv University and with hands-on experience in design and development of signal processing algorithms for Sonar/Radar based detection, and classification capabilities.

EMPLOYMENT HISTORY

2021 — Present **System Engineer – Radar Systems** **General Motors - Israel**

- Radar System engagement with Tier1/2/3, with feature/perception teams & support execution activities, to roll out a scalable radar system for GM retail autonomy programs.
- Working closely with SMT, ALGO, SW and customer/feature owners to define, design and execute the Radar system.
- Hands-on radar development, working internally with domain processing SW capabilities, as well as testing, data analysis, and problem resolution for the Radar system.
- In depth analysis, identifying & solving the root-cause of complex radar system challenges – from fundamentals to system/feature level.

2018 — 2021 **Technical System Engineer (Maj.) - Sonar System** **IDF - Israeli Navy**

- System Engineer Officer for Israeli Sonar system development in Dolphin Class Israeli submarines, developing advanced, integrated hardware & software sensor capabilities for detection, tracking, analysis, and classification of underwater acoustic targets. Responsible for formulating the project's performance metrics as well as its unique set of technical requirements needed for a mission critical submarine-based Sonar system.
- Acoustic Algorithm Development Team Leader – Hands-on management of a 3-person team, developing acoustic signal processing (MATLAB) & machine learning capabilities for detection & classification of underwater targets.

2016 — 2018 **Underwater Acoustics Engineer** **DDR&D - Israeli Ministry of Defense**

- Sensor development and integration from multiple disciplinary fields, including acoustic, magnetic & RF sensing.
- Analytic and simulative research of estimation algorithms for passive & active Sonar systems.
- Initiated and technically managed R&D projects.

2013 — 2016 **Hardware & Signal Processing Engineer** **DDR&D - Israeli Ministry of Defense**

- Hardware sensor development & signal / data processing using MATLAB & LabVIEW environments. Development carried out to proof-of-concept, which included real-time integration & extensive on-site testing & evaluation.

EDUCATION

2017 — 2020	**M.Sc. Tel Aviv University**	Management of Technology and Information	Tel Aviv
2009 — 2013	**B.Sc. Jerusalem College of Technology**	Electrical and Electronics Engineering	Jerusalem

SKILLS

- System Architecture & Design
- Sensor Development
- Project Management
- Team Leadership
- Problem Solving
- Underwater Acoustics Systems
- Signal Processing (MATLAB)
- Data Processing (MATLAB)
- Algorithm Development
- MATLAB & Simulink
- Arduino IDE

LANGUAGES

English	Native speaker	(Immigrated to Israel from Gibraltar, UK in 2009)
Hebrew	Native speaker	
Spanish	Proficient	

CERTIFICATIONS & COURSES

Project Management Officer Course	Israeli Navy	2017
Budgeting & Finance	Israeli Ministry of Defense	2017
Submarine Systems for engineers	Israeli Navy	2016
Certified Associate in Project Management (CAPM)	Israeli Airforce	2015
Image Processing	IDF	2014
Officers Course	IDF	2014

AWARDS

- Israeli Ministry of Defense - DDR&D: Unbelievable Program Award. 2018
- Israeli Ministry of Defense - DDR&D: Nominee - Presidential citation for distinguished service. 2015

INTERESTS & HOBBIES

- 3D Printing & CAD modelling
- Drone & Aerial Photography
- IOT & Programmable chipsets
- Scuba Diving & Skiing