Hadi Alidoustaghdam

Computational Imaging & Sensing Engineer
Scientific Computing • RF & Wave Physics
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Profile

- Computational imaging & sensing engineer with expertise in RF systems, radar sensing, ultrasonic imaging, scientific computing, and inverse problems.
- R&D experience in microwave circuits and antenna design.
- Extensive experience in product development, prototyping, and proof-of-concept measurements.

Work Experience

R&D electrical engineer, Ultrasonics **Aug 2025-**
Allseas Engineering, Eindhoven, Netherlands

- Nondestructive testing of oil and gas pipelines with phased array ultrasonic.
- Algorithm development and signal processing.

PhD Researcher, Communication & Sensing **Sep 2020-Dec 2024**
University of Twente, Enschede, Netherlands

- Developed system-level models for 6G wireless networks.
- Developed tiled-array RF front-end architectures for Joint Communication and Sensing.
- Signal processing for monitoring human vital signs by mmWave radar.

M.Sc. Researcher, Microwave Imaging **2018-2020**
Istanbul Technical University, Istanbul, Turkey

- Worked on signal processing and implementation of microwave imaging techniques.
- Focused on breast cancer detection, through-the-wall imaging, noninvasive diagnostics using microwave technology.
- Antenna design for wireless capsule endoscope system.

Microwave Network Engineer **2016-2018**
Huawei, Tehran, Iran

- Designed and implemented tailored solutions for network expansion and optimization, focusing on enhancing performance and meeting customer requirements.

Details

Date of Birth: 08.05.1993
Gender: Male
Address:
Weert, Limburg

Core Competencies

- Computational Imaging
- Scientific Computing
- Inverse Problems & Optimization
- Wave Physics
- RF Systems Engineering

Technical Expertise

Signal Processing & Imaging

- Imaging Algorithms
- Radar Signal Processing
- Wireless Communication Systems

RF/ Microwave

- RF Circuits/Antennas
- EM/microwave simulation
- EMC, EMI

Scientific Computing & Tools

- Numerical Modeling
- HFSS & CST
- Altium & ADS
- MATLAB & Python

Certificate

- Google Project Management Certificate

Education

PhD in Electrical and Electronics Engineering, **2020–2024**
University of Twente, Enschede, Netherlands
Thesis: Joint Communication and Sensing, Array antenna design.

M.Sc. in Telecommunication Engineering **2018–2020**
Istanbul Technical University, Istanbul, Turkey
Thesis: Qualitative Microwave Imaging Inside Metallic Cavity, GPA: 3.86/4.0

B.Sc. in Electrical and Electronics Engineering **2011–2016**
Iran University of Science and Technology, Tehran, Iran
Thesis: Multilayer Passive Microwave Switch, GPA: 3.75/4.0

Skills

Technical skills

- Comprehensive expertise in RF/microwave design, i.e., filters, antennas and amplifiers.
- In-depth knowledge of inverse problems, qualitative and quantitative imaging using microwave technologies, SAR, ISAR, and radar systems.
- Proficient in CAD tools, electromagnetic simulation, and PCB design.
- Hands-on experience with RF/microwave measurement techniques and instrumentation.
- Programming skills in MATLAB, Python, and C++.

Management skills

- Problem-solving and troubleshooting skills with experience in complex challenges.
- Strong communication and collaboration abilities, with a capacity to work effectively both independently and within team environments.
- Excellent technical documentation and presentation skills.
- Skilled in budget and timeline management, supervision and leadership skills
- Expertise in requirements analysis, model-based systems engineering, risk management.

Language Skills

Native in Turkish and Persian
Fluent in English
Intermediate in Dutch

Hobbies & Interests

- Painting, art galleries, cinema.
- Reading (Art and Philosophy).
- Sports (Running and gym).

References

- Available upon request.