



# Iman Esfandiyar

**Work :** Piotrowo 3, 61-139, Poznań, Poland

**Email:** [iman@esfandiyar.net](mailto:iman@esfandiyar.net) **Email:** [iman.esfandiyar@put.poznan.pl](mailto:iman.esfandiyar@put.poznan.pl)

**Phone:** (+48) 660822352 **Website:** <https://esfandiyar.net/>

**Date of birth:** 30/12/1992 **Nationality:** Iranian

## ABOUT ME

I am a dedicated, self-inspired and friendly individual. I like problem solving in the form of engineering challenges. I work well in a group as well as on my own. I am very willing to learn and develop new skills on daily basis. As I have a creative mind, I would like to work on new challenges. I am well organized and think ahead to make sure I manage my projects and time.

## EDUCATION AND TRAINING

[ 14/02/2018 – 29/06/2020 ]

### Master's degree

**Poznan University of technology, Poland** <https://www.put.poznan.pl/>

**Address:** Plac Marii Skłodowskiej-Curie 5, 60-965, Poznań, Poland

**Field(s) of study:** Automatic Control and Robotics, specialization Smart Aerospace and Autonomous Systems

**Final grade:** 4.29

**Type of credits:** ECTS **Number of credits:** 90

**Thesis:** 5

#### Masters Thesis

Algorithmization of lining up maneuver for automated articulated bus.

Supervisor: dr hab. Inż. Maciej Michałek Prof. of PUT ([maciej.michalek@put.poznan.pl](mailto:maciej.michalek@put.poznan.pl))

[ 09/10/2011 – 14/06/2016 ]

### Bachelor's degree

**Azad University Damavand Branch** <http://damavandiau.ac.ir/>

**City:** Damavand

**Country:** Iran

**Field(s) of study:** Mechanical Engineering, Specialization Mechatronics

**Final grade:** 3.96/5

**Number of credits:** 150

## PUBLICATIONS

[ 2023 ]

### [GNSS-Based Driver Assistance for Charging Electric City Buses: Implementation and Lessons Learned from Field Testing](#)

**Reference:** Remote Sensing | Journal volume: vol. 15 | Journal number: iss. 11

## PROJECTS

[ 01/10/2019 – 01/09/2021 ]

### Advanced driver assistance system for precise manoeuvres of non-articulated and articulated city buses

*Position: Research assistant, system developer*

*Released by: Poznań University of Technology, Solaris Bus & Coach sp. z o.o.*

*Project financed under the Regional Science and Research Agendas program by the National Center for Research and Development*

*POIR 04.01.02-00-0081/17*

*Co-financed by the European Regional Development Fund: 3 848 181 PLN*

[ 01/10/2022 – Current ] **AgrifoodTEF, Test and Experiment Facilities for the Agri-Food AI Domain**

*Position: Chief specialist, plant detection and autonomous farm robot development*

*Released by: Sieć Badawcza Łukasiewicz - Poznań Institute of Technology*

*Funding from the European Union's Digital Europe Programme under grant agreement No. 101100622*

*Project budget: 2 395730 EUR*

### **Development of intelligent swarm technology as reconfigurable drones and for photovoltaic farm inspection and drone shows**

*Position: Chief specialist, Team lead, Development of autonomous drone swarm system*

*Released by: "ROGOŹ" Sp. z o, Polsko-Japońska Akademia Technik Komputerowych*

*Project financed under the Smart Growth Operational Program by the European Regional Development Fund*

*POIR.04.01.04-00-0078/20*

*Project budget: 12 566 671,28*

[ 01/10/2022 – Current ] **ICOS Towards a functional continuum operating system**

*Position: Chief specialist, Autonomous farm robot development, predictive maintenance system*

*Released by: Sieć Badawcza Łukasiewicz - Poznań Institute of Technology*

*Funding from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101070177*

*Project budget: 300 625 EUR*

[ 01/01/2023 – 31/12/2023 ]

### **Development of advanced technology of autonomous drone swarms for digital security of critical infrastructure, ad hoc inspection applications**

*Position: Product manager, Swarm management and monitoring software*

*Released by: "ROGOŹ" Sp. z o, Warsaw University of Technology*

*POIR.01.01.01-00-0040/22*

*Project budget: 14 349 134,00 PLN*

## **WORK EXPERIENCE**

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[ 15/10/2022 – Current ] **Chief specialist robotics and AI**

***Sieć Badawcza Łukasiewicz - Poznań Institute of Technology***

**City:** Poznan

**Country:** Poland

**Email address:** [iman.esfandiyar@pit.lukasiewicz.gov.pl](mailto:iman.esfandiyar@pit.lukasiewicz.gov.pl)

**Name of unit or department:** Artificial Intelligence Development

**Business or sector:** Information and communication

[ 14/10/2021 – Current ] **University teaching assistant**

***Poznań University of Technology***

**City:** Poznań

**Country:** Poland

Conducting information engineering laboratory

Teaching C++ programming

[ 30/06/2021 – 31/12/2024 ] **Robotic software development lead**

***ROGOŹ Sp. z o.o. -A- S.K.A.***

**City:** Poznan

**Country:** Poland

**Email address:** [i.esfandiyar@rogozpolska.pl](mailto:i.esfandiyar@rogozpolska.pl)

[ 30/09/2019 – 29/06/2021 ] **Research assistant**

***Poznań University of Technology***

**City:** Poznań

**Country:** Poland

- Design and develop Advanced driver-assistant system for articulated urban buses.
- Develop Sensor fusion, state estimation planning and control algorithms of autonomous vehicles
- Developing ROS1 and ROS2 packages, Programming C++ in Linux OS

[ 14/08/2011 – 14/04/2014 ] **Team leader**

***Azad University of Damavand***

**City:** Damavand

**Country:** Iran

- Coordinator and technical manager of DML rescue robot research group
- Design and develop of mechanical systems of various mobile robots
- Establishing modular electronic and embedded systems.
- Establishing robotic communication systems.

[ 31/03/2015 – 04/2015 ] **Technical Committee**

***Amirkabir University of Technology***

**City:** Tehran

**Country:** Iran

- Technical committee of robotic competitions, Real reuse league, AUT cup

[ 31/07/2017 – 27/02/2018 ] **Workshop coordinator**

***Spadana Co***

**City:** Pardis

**Country:** Iran

- Vending machine production line manager
- Mechanical system design

[ 28/02/2012 – 14/07/2017 ] **Mechatronics engineer**

***Azargostar Damavand Co.***

**City:** Rudehen

**Country:** Iran

- BMS system design and installation
- Piping systems design
- Security systems installation

## VOLUNTEERING

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[ 30/04/2016 – 14/07/2016 ] **Cultural exchange program (WorldTalks and KidSpeak)** AIESEC organization, Poznan, Poland, Summer

[ 30/07/2019 – 30/08/2019 ]

**Educational project, Providing English language and creativity classes for student**

Ankizy Gasy foundation , Madagascar

## LANGUAGE SKILLS

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**Mother tongue(s):** Persian

**Other language(s):**

**English**

**LISTENING C1 READING C2 WRITING B2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

**Polish**

**LISTENING B1 READING B1 WRITING A2**

**SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## HONOURS AND AWARDS

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[ 09/06/2012 ] **Best in class manipulation (1st place) Real rescue robot** Awarding institution: RoboCup, Mexico City, Mexico

[ 12/03/2016 ] **Distinguished researcher of the year** Awarding institution: Damavand Azad University

[ 27/03/2015 ] **Best in class manipulation (1st place) Real rescue robot** Awarding institution: IranOpen RoboCup Competitions  
Awarded for 3 years (2012, 2014, 2015)

[ 27/03/2015 ] **Best in class innovation (1st place) Real rescue robot** Awarding institution: IranOpen RoboCup Competitions

[ 14/10/2014 ] **1st Place - Real rescue robot league** Awarding institution: Khayam Robotic Competitions , Iran

[ 14/04/2013 ] **2nd Place - Real rescue robot league** Awarding institution: Roboland Robotic Competitions , Iran

## CONFERENCES AND SEMINARS

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[ 28/11/2023 – 29/11/2023 ]

**Potential of implementing operational meta systems in agriculture using the ICOS project**

Poznan

Link: <https://www.rol-eko.com/>

## DRIVING LICENCE

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**Motorbikes:** AM

**Cars:** B1

**Cars:** B

## HOBBIES AND INTERESTS

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### **Visual Arts**

Photography, Videography and create visual content

### **Web Design**

WordPress developer

### **Extreme Sports**

Rock Climbing, Highlining, Unicycling