

**** **Abdullah Yusefi**  Konya, Turkey +90 552 246 45 10

 linkedin.com/in/abdullah-yusefi [a.yusefi1991@gmail.com](mailto:a.yusefi1991@gmail.com)

|  |
| --- |
|  |
| PhD in Sensor fusion and Visual-based Localization in Autonomous Systems. • 4.0+ yrs. of hands-on experience with 3D/2D LiDAR, 4D/3D Radar, Inertial sensors, RTK GNSS and Mono/Stereo Cameras. • Developed and implemented software for autonomous navigation, perception, and control systems in robotics.  **EDUCATION** |

**PhD, Computer Science Engineering** Faculty of Engineering Konya Technical University, Turkey Sep2017 – Jan 2024

**Turkish Language Preparation** Selçuk TÖMER Selçuk University, Turkey Sep 2016 – Aug 2017

**Masters, Computer Science Engineering** University College of Engineering Osmania University, India Sep2012 – Dec 2014

**Bachelor of Computer Science** Faculty of Computer Science Kabul University, Afghanistan Sep 2008 – Nov 2011

**CERTIFICATIONS**

**Build Basic Generative Adversarial Networks (GANs)** Coursera **Credential ID**: ESJYTWRAT64N Dec 2020

**Neural Networks and Deep Learning** Coursera **Credential ID**: 7TBHQGVPUZCR Dec 2020

**Coding for Everyone: C and C++ Specialization** Coursera **Credential ID**: AWWVL8PS6FMG Nov 2020

|  |
| --- |
| **WORK EXPERIENCE** |

**R&D Software Engineer – Robotics & Autonomous Vehicles,** MPG Machinery Production Group Inc. Konya, TurkeyMay 2021 - Cont.

* Develop and implement software for autonomous navigation, perception, and control systems in robotics.
* Integrate visual, LiDAR, and IMU sensors for real-time environment perception.
* Apply machine learning for optimizing decision-making in dynamic environments.
* Use simulation tools to validate robotic algorithms in various scenarios.
* Collaborate with multidisciplinary teams to integrate software into complete robotic systems.
* Prepare technical documentation to communicate complex concepts effectively.
* Mentor junior team members and fostered a collaborative team environment.
* Stay updated with advancements in robotics and software engineering.

**NOC Supervisor,** RANA Technologies Enterprises (RTE) Kabul, AfghanistanFeb 2015 - Aug 2016

* Oversee customer requests and promptly handle service events.
* Address escalated issues for timely resolution.
* Manage trouble ticket procedures, serving as an escalation point for NOC employees.
* Supervise phone queues, ticket statuses, and core network maintenance, demonstrating self-management, logical thinking, and strong communication skills.

**IP Backbone Engineer,** Afghan Wireless Communication Company (AWCC) Kunduz, AfghanistanDec 2011 - Aug 2012

* Install and configure Cisco networking equipment for optimal functionality.
* Monitor and maintain IP/VoIP/VPN networks to ensure reliability and high performance.
* Manage configurations, including backup, restoration, and modifications.
* Analyze syslogs, manage alarms, implement QoS for efficient bandwidth, oversee network management, troubleshoot issues, and ensure timely resolutions.

|  |
| --- |
| **SKILLS** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Language**: C++, Python | **Framework**: ROS 1/2, OpenCV | **Machine Learning**: Keras, PyTorch | **OS**: Linux, Windows | **Sensor**: Camera, LiDAR, Radar, IMU, GNSS |  |

|  |  |  |
| --- | --- | --- |
| |  |  | | --- | --- | |  |  |   **PUBLICATIONS** |

**A Unified Monocular Vision-Based Driving Model for Autonomous Vehicles with Multi-Task Capabilities** Oct 17, 2024

IEEE Transactions on Intelligent Vehicles, IEEE URL: https://ieeexplore.ieee.org/abstract/document/10721282/

**A Generalizable D-VIO and Its Fusion with GNSS/IMU for Improved Autonomous Vehicle Localization** Sep 18, 2023

IEEE Transactions on Intelligent Vehicles, IEEE URL: <https://ieeexplore.ieee.org/abstract/document/10254363>

**Narrow Space Warning and Slope Control System compatible with ADAS** Jul 05, 2023

2023 SIU, IEEE URL: <https://ieeexplore.ieee.org/abstract/document/10223997>

**Improved Dead Reckoning Localization using IMU Sensor** Nov 10, 2023

2022 ISETC, IEEE URL: <https://ieeexplore.ieee.org/abstract/document/10010239>

**HVIOnet: A deep learning based hybrid visual–inertial odometry approach for unmanned aerial system position estimation** Nov 01, 2023

Neural Networks, Pergamon URL: <https://www.sciencedirect.com/science/article/abs/pii/S0893608022003355>

**COVID-19 Isolation Control Proposal via UAV and UGV for Crowded Indoor Environments: Assistive Robots in the Shopping Malls** May 31 2022

Frontiers in public health, Frontiers Media SA URL: <https://www.frontiersin.org/articles/10.3389/fpubh.2022.855994/full>

**The YTU dataset and recurrent neural network based visual-inertial odometry** Nov 01, 2021

Measurement, Elsevier URL: <https://www.sciencedirect.com/science/article/abs/pii/S0263224121008198>

**A tutorial: Mobile robotics, SLAM, bayesian filter, keyframe bundle adjustment and ROS applications** Jul 18, 2021

Robot Operating System (ROS), Springer URL: <https://link.springer.com/chapter/10.1007/978-3-030-75472-3_7>

**Performance comparison of Extreme Learning Machines and other machine learning methods on WBCD data set** Jun 09, 2021

2021 SIU, IEEE URL: <https://ieeexplore.ieee.org/abstract/document/9477984>

**LSTM and Filter Based Comparison Analysis for Indoor Global Localization in UAVs** Jan 08, 2021

IEEE Access, IEEE URL: <https://ieeexplore.ieee.org/abstract/document/9316698>

|  |
| --- |
| **LANGUAGE SKILLS** |

|  |  |  |  |
| --- | --- | --- | --- |
| * Turkish (Fluent) | * Persian (Native) | * Uzbek (Native) | * English (Excellent) |