



# Abdullah Yusefi

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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	Sep 2017 – 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	Sep 2012 – 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: ESJYTWRT64N	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

<b>R&amp;D Software Engineer – Robotics &amp; Autonomous Vehicles</b> , MPG Machinery Production Group Inc.	Konya, Turkey	May 2021 - Cont.
<ul style="list-style-type: none"><li>Develop and implement software for autonomous navigation, perception, and control systems in robotics.</li><li>Integrate visual, LiDAR, and IMU sensors for real-time environment perception.</li><li>Apply machine learning for optimizing decision-making in dynamic environments.</li><li>Use simulation tools to validate robotic algorithms in various scenarios.</li><li>Collaborate with multidisciplinary teams to integrate software into complete robotic systems.</li><li>Prepare technical documentation to communicate complex concepts effectively.</li><li>Mentor junior team members and fostered a collaborative team environment.</li><li>Stay updated with advancements in robotics and software engineering.</li></ul>		
<b>NOC Supervisor</b> , RANA Technologies Enterprises (RTE)	Kabul, Afghanistan	Feb 2015 - Aug 2016
<ul style="list-style-type: none"><li>Oversee customer requests and promptly handle service events.</li><li>Address escalated issues for timely resolution.</li><li>Manage trouble ticket procedures, serving as an escalation point for NOC employees.</li><li>Supervise phone queues, ticket statuses, and core network maintenance, demonstrating self-management, logical thinking, and strong communication skills.</li></ul>		
<b>IP Backbone Engineer</b> , Afghan Wireless Communication Company (AWCC)	Kunduz, Afghanistan	Dec 2011 - Aug 2012
<ul style="list-style-type: none"><li>Install and configure Cisco networking equipment for optimal functionality.</li><li>Monitor and maintain IP/VoIP/VPN networks to ensure reliability and high performance.</li><li>Manage configurations, including backup, restoration, and modifications.</li><li>Analyze syslogs, manage alarms, implement QoS for efficient bandwidth, oversee network management, troubleshoot issues, and ensure timely resolutions.</li></ul>		

## SKILLS

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

<b>A Unified Monocular Vision-Based Driving Model for Autonomous Vehicles with Multi-Task Capabilities</b>	IEEE Transactions on Intelligent Vehicles, IEEE	URL: <a href="https://ieeexplore.ieee.org/abstract/document/10721282/">https://ieeexplore.ieee.org/abstract/document/10721282/</a>	Oct 17, 2024
<b>A Generalizable D-VIO and Its Fusion with GNSS/IMU for Improved Autonomous Vehicle Localization</b>	IEEE Transactions on Intelligent Vehicles, IEEE	URL: <a href="https://ieeexplore.ieee.org/abstract/document/10254363">https://ieeexplore.ieee.org/abstract/document/10254363</a>	Sep 18, 2023
<b>Narrow Space Warning and Slope Control System compatible with ADAS</b>	2023 SIU, IEEE	URL: <a href="https://ieeexplore.ieee.org/abstract/document/10223997">https://ieeexplore.ieee.org/abstract/document/10223997</a>	Jul 05, 2023
<b>Improved Dead Reckoning Localization using IMU Sensor</b>	2022 ISETC, IEEE	URL: <a href="https://ieeexplore.ieee.org/abstract/document/10010239">https://ieeexplore.ieee.org/abstract/document/10010239</a>	Nov 10, 2023
<b>HVIONet: A deep learning based hybrid visual-inertial odometry approach for unmanned aerial system position estimation</b>	Neural Networks, Pergamon	URL: <a href="https://www.sciencedirect.com/science/article/abs/pii/S0893608022003355">https://www.sciencedirect.com/science/article/abs/pii/S0893608022003355</a>	Nov 01, 2023
<b>COVID-19 Isolation Control Proposal via UAV and UGV for Crowded Indoor Environments: Assistive Robots in the Shopping Malls</b>	Frontiers in public health, Frontiers Media SA	URL: <a href="https://www.frontiersin.org/articles/10.3389/fpubh.2022.855994/full">https://www.frontiersin.org/articles/10.3389/fpubh.2022.855994/full</a>	May 31 2022
<b>The YTU dataset and recurrent neural network based visual-inertial odometry</b>	Measurement, Elsevier	URL: <a href="https://www.sciencedirect.com/science/article/abs/pii/S0263224121008198">https://www.sciencedirect.com/science/article/abs/pii/S0263224121008198</a>	Nov 01, 2021
<b>A tutorial: Mobile robotics, SLAM, bayesian filter, keyframe bundle adjustment and ROS applications</b>	Robot Operating System (ROS), Springer	URL: <a href="https://link.springer.com/chapter/10.1007/978-3-030-75472-3_7">https://link.springer.com/chapter/10.1007/978-3-030-75472-3_7</a>	Jul 18, 2021
<b>Performance comparison of Extreme Learning Machines and other machine learning methods on WBCD data set</b>	2021 SIU, IEEE	URL: <a href="https://ieeexplore.ieee.org/abstract/document/9477984">https://ieeexplore.ieee.org/abstract/document/9477984</a>	Jun 09, 2021
<b>LSTM and Filter Based Comparison Analysis for Indoor Global Localization in UAVs</b>	IEEE Access, IEEE	URL: <a href="https://ieeexplore.ieee.org/abstract/document/9316698">https://ieeexplore.ieee.org/abstract/document/9316698</a>	Jan 08, 2021

## LANGUAGE SKILLS

Turkish (Fluent)	Persian (Native)	Uzbek (Native)	English (Excellent)
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