Milad Zahediyami

Doctoral Researcher at IMS Lab

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Skills

Academic	Digital Twin, Cyber Physical Systems, Internet of Things, Software Engineering
Programming	Python, Java, C++, C#, SQL
Technical	Object-Oriented Programming, Agile Method, Software Development, Test Automation, GitHub
Cloud	Amazon Web Services (AWS), Microsoft Azure
Interpersonal	Problem Solving, Team-working, Positive Attitude, Ability to Multi-Task, Active Listening
Language	English(Advanced), Persian (Native), French (Intermediate)

Education

2023–Present **PhD. Automation, Production, Signal and Image, Cognitive Engineering**, ***IMS Lab***, University of Bordeaux, Bordeaux, France.
Thesis title: Verification and Validatino of Digital Twins.

2020–2022 **M.Sc. Computer Science, Cyber-Physical Systems**, *University of Lyon - Jean Monnet University*, **Saint-Etienne**, France.

2016–2020 : **B.Sc. Computer Engineering, Architecture of Computer Systems**, *Shiraz University*, Shiraz, Iran.

Professional Experiences

2023 **Research Software Engineer**, *Huawei*, Grenoble, France.
- Calibration of simulator and neural network-based accelerator for efficient data packet processing
- Data Extraction and Analysis of logs generated by simulator to improve the performance of the simulator model

2022 **Software Engineer [Intern]**, *Orange*, Paris, France.
- Design and development of an automated test selection Software for verification and validation of mobile/Tablet devices by defining different test scenarios.
- Development of a Cloud-based System using Amazon Web Services in order to manage the software data and handle the requests by large number of users. documentation

2021 **Research Embedded Software Engineer [Intern]**, *Focal*, Sain-Etienne, France.
- Optimization of Adaptive Algorithms for Active Noise Cancellation in headphones.
- Behavioral simulation of Adaptive Algorithms in time and frequency domains and real-time Implementation on microprocessor to measure level of cancelled noise.

Publications

2024 **Software Testing Approach for Digital Twin Verification and Validation**, *Zahediyami M, Gorecki S, Traore M K*, In Working Conference on Virtual Enterprises pp 115 129 Springer 2024.

Technical Projects

2022 **Development of a cloud-based software using Amazon Web Services**.
- Implementation of a Scalable Web-Queue-Worker Architecture for Handling of Retail Transactions using EC2, S3, SQS and Lambda Function
- Design the web application components in python, including user interfaces and data access layer

2022 **Development of a Multi-Agent System based Smart Home** .
- Employment of MQTT protocol to receive real-time sensor data from microcontrollers and store it on database
- Designing a Multi-Agent System to interact with the environment and automatically modifies the Web Front-end and Back-end