

Maysam Zoor

*PhD in Computer Science,
Computer and Communication
Engineer*

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Objective

A Ph.D. graduate from Institut polytechnique de Paris with more than four years of experience in companies and an engineering degree applying to your reputable company to actively implement and share my acquired knowledge, interpersonal, research and technical skills with a challenging, yet rewarding team. I have collaborated with Siemens (Austria) and ClearSy during my PhD studies as my thesis is part of AQUAS European project.

Education

2017–2021 **PhD student**, INSTITUT POLYTECHNIQUE DE PARIS, Paris.

Proposing, formally defining and implementing a new approach to verify timing requirements in embedded systems based on representing the system model as a graph and analyzing simulation/execution traces along this graph. The approach can be extended to design safe and secure embedded systems while respecting timing constraints.

- **Subject:** Latency Verification in Execution Traces of HW/SW Partitioning Model
- **Doctorate:** Computer Science
- **Doctoral School:** Ecole Doctorale de l'Institut Polytechnique de Paris
- **Institution:** Telecom Paris
- **Lab:** LabSoc - Comlec Department
- **Project:** AQUAS European project (European Union's Horizon 2020)
- **Scientific training**
 - Hardware Security (21 hours)
 - UML for Embedded System (21 hours)
 - Security Applications in Networking and Distributed Systems (21 hours)
 - Summer school: CPS and IoT (June 2019 - Budva)
- **Professional training**
 - Ethics and STICs (12 hours)
 - EURECOM Project Management (25 hours)
 - French language (44 hours)
- **Others Activities**
 - Assisting in paper review processes
 - Assisting in preparing and giving TTool Tutorial (CPS & IoT-June 2019 Summer School)

2016–2017 **Masters of Computer Science and Risk Management**, LEBANESE UNIVERSITY, Lebanon.

- **Rank:** 3/14
- **Average:**80.29 - **Honor:** Very Good
- **Research Work:** Security Challenges in CityPro: a new intelligent city that is constructed by Internet of Things, cloud computing and other information technologies
- **Course Work:** Network Security, Wireless Network and AdHoc, Information system for risk prevention, Modeling and Evaluation of Computer Systems, Virtualization Architectures, Ubiquitous system: Sensor Technologies, IOT, Real Time Big Data Analysis.

2007–2012 **BE in Computer and Communication Engineering**, NOTRE DAME UNIVERSITY, Lebanon.

- Graduated with **distinction**
- **Cumulative GPA:** 3.26/4 (**Dean's** honor List)
- **Financed** 25% of my tuition through Study/Work grand and summer jobs.
- **Senior Project:** Intelligent Digital Pen (ID-Pen).Transforms handwritten text into typed letters.It is based on IMU sensor (accelerometer and gyroscope). *Achieved with A grade*
- **Researched topics:** MTC Touch and GSM in Lebanon, Fiber Optics and its implementation in Lebanon
- **Course work:** Networking, Antenna Design, Fiber Optics, Wave propagation, Communication, Electromagnetic, Microprocessor, Microcontroller, Electronics, Computer Architecture, Operating Systems, Database, JavaScript, Web designing

Publications

- Zoor, M., Apvrille, L., and Pacalet, R. (2021, October). Execution Trace Analysis for a Precise Understanding of Latency Violations. In 2021 ACM/IEEE 24th International Conference on Model Driven Engineering Languages and Systems (MODELS) (pp. 123-133). IEEE.
- Zoor, M., Apvrille, L. and Pacalet, R., 2020, October. SysML models: studying safety and security measures impact on performance using graph tainting. In Proceedings of the 23rd ACM/IEEE International Conference on Model Driven Engineering Languages and Systems: Companion Proceedings (pp. 1-10).
- Zoor, M., Apvrille, L. and Pacalet, R., 2020, February. Impact of Security Measures on Performance Aspects in SysML Models. In MODELSWARD (pp. 373-380).
- Fujdiak, R., Blazek, P., Apvrille, L., Martinasek, Z., Mlynek, P., Pacalet, R., Smekal, D., Mrnustik, P., Barabas, M. and Zoor, M., 2019, June. Modeling the trade-off between security and performance to support the product life cycle. In 2019 8th Mediterranean Conference on Embedded Computing (MECO) (pp. 1-6). IEEE.

Professional Certificates

- Introduction to Embedded Machine Learning (2021)
Online course - Edge Impulse
- Managing Global Projects (2018)
Eurecom (Grade>80/100)

Experience

- 2017–2021 **PhD Student**, INSTITUT MINES-TELECOM, Sophia Antipolis.
Project: AQUAS European project (European Union's Horizon 2020)
- Attending Plenary meetings every 4 to 6 months
 - Attending telcos on weekly bases
 - Collaborating with partners on possible tool interactions
 - Modeling two use cases to test our approach
 - Industrial Drive use case with Siemens Austria
 - Rail Carriage Mechanisms use case with ClearSy
 - Contacting use case leaders on details concerning the models
- 2016–2017 **Masters of Computer Science and Risk Management**, MINES PARISTECH, Sophia Antipolis.
- **Training:** Developing a simulation environment based on multi agent system for the assessment of the vulnerability of a maritime network
 - Using Anylogic Java based platform to implement a flexible maritime network from individual agents (specific behaviors according to their objectives) where new agents can be added easily
 - Implementing maritime network as a graph along with algorithms such as shortest path algorithm.
 - Implementing disruptions corresponding to various maritime risk scenarios
 - Reading about and applying geometrics/computing skills
- May 2015 – **Software Engineer**, LIBATEL, Lebanon.
- November 2016
- Programing and enhancing call accounting system that transforms the raw data into meaningful reports : Sharpdial- AVAYA certified
 - Installing and maintaining call back server solution for windows
 - Developing AVAYA IP phone application (Touch con)
 - Tuning SQL queries related to applications and reports
 - Developing web sites
 - Coordinating with clients to provide required support
 - Creating telephony notification system to ensure rapid and coordinated response to crisis
- May 2013 – **Software Engineer**, PATH SOLUTIONS, Lebanon.
- May 2015
- Programing and migrating, IMAL Banking solutions project, from PowerBuilder to JAVA Multitier Platform Web project (Ajax, Java, JSP, Struts, Spring, IBatis, JavaScript, Tomcat Server)
 - Developing queries and procedure in Sybase and Oracle PL/SQL Databases (Database > 2TB)
 - Attending several trainings including: Java, Powerbuilder, IMAL, Make Stress Work for You, Managing Conflicts and Building winning Teams
 - Practicing Agile methodology: Scrum
- Nov 2012 – **Embedded System Engineer**, EKT ELECTRONICS, Lebanon.
- May 2013
- Developing PIC projects using MikroBasic
 - Designing circuits PCBs layouts and schematics
 - Releasing Led Display Messages Specific versions for customers
 - Bug fixes of RTC (Real Time clock)
 - Designing and Developing NTP (Network Time Protocol) Clock Project and releasing it as a new product to market

Trainings

- April 2012 – **Trainee**, MULTILANE, Lebanon.
June 2012
- Designing PCB and Schematics
 - Drawing Footprints for IC's using OrCAD
 - Routing and Power Designing
- April 2011 **Trainee**, OGERO,, Lebanon.
○ Attending training and technical sessions on Optical Fiber as a transport network
- July 2010 – **Trainee**, MTC TOUCH, Lebanon.
September 2010
- Responsibilities Learned : Team work and Time management
 - Acquisition, acceptance and documentation of sites
 - Visiting sites with the Acceptance team procedures

Advanced Software Tools

- Software Languages/Tools
 - JAVA
 - C#
 - SYBASE
 - JAVASCRIPT
 - Anylogic
 - C++
 - ASP.NET
 - PL/SQL-ORACLE
 - JQUERY
 - MATLAB
- Designing Languages/Tools
 - UML
 - Anylogic
 - AUTOCAD
 - Verilog
 - MULTISIM
 - SysML
 - TTool
 - MIKROBASIC
 - SIMULINK
 - ALEGRO

Volunteering Experience

- 2012 – **Volunteer**, SHOUF BIOSPHERE RESERVE, Lebanon.
current
- Guiding tourists along the reserve
 - Organizing hiking days with different groups (students, soldiers, companies, families...)
 - Organizing fund raising events for different NGOs
 - Social activities in the Biosphere villages
- 2016 – **Local Guide**, LEBANON MOUNTAIN TRAIL NGO, Lebanon.
current
- Attending several trainings including flora, first aid, history, professional guiding tips ...
 - Guiding tourists along the LMT trail
- 2007 – 2012 **Co-founder**, "RED LINE" CLUB, Social Club at NDU.
○ Organizing trips, Parties and fund raising events
○ Celebrating special events with orphans

Languages

- English **Advanced** *Con conversationally fluent*
- Arabic **Mothertongue**
- French **Basic** *Pre intermediate A2- Basic words and phrases*