

# Dr. Christian El Salloum, CISSP

PROJECT MANAGER & ARCHITECT · SECURITY & CLOUD COMPUTING · SAFETY-CRITICAL SYSTEMS

Anzengrubergrasse 14/16, A-1050 Wien

☎ (+43) 680 2045759 | ✉ christian.elsalloum@primefaktor.at | 🔗 linkedin.com/in/christian-elsalloum/

I am solution and security architect with 20+ years of solid experience within the IT industry. My passion is creating leading edge safe and secure technology and engaging with creative people. During my career, I have gained substantial expertise in project management, acquisition, business and requirement analysis, solution architecture, content management and product development. I am specialized in the fields of Cyber Security, Cloud Computing and Safety-Critical Systems.

## Experience

---

### Security Architect & Co-Founder

Vienna, Austria

PRIMEFAKTOR IT SOLUTIONS GMBH

March 2024-2025

- Enterprise Security Architecture consulting for multinational corporations
- Assessment of complex IT security infrastructures on enterprise level
- Security solution architecture covering all levels from OT, on-premise server and network infrastructure, cloud infrastructure, endpoint protection, IAM, as well as global monitoring and SIEM
- Application-level security architecture including threat modeling
- Security training for developers and IT staff

### SW Development & Cyber Security Lead

Vienna, Austria

EMTENSOR GMBH

2020 - 2024

- Lead architect and development lead for a medical Cloud/IoT platform to control and monitor distributed brain imaging devices and to perform low-latency image reconstruction on cloud-based High-Performance-Compute clusters. The solution spans Microsoft Azure, AWS, and GCP and supports integration to state-of-the-art medical IT infrastructure (e.g., DICOM compatibility and PACS integration)
- Design and implementation of the security architecture and the security controls (in the cloud and the IoT devices)
- Security assessment for regulatory compliance for medical devices
- Definition and implementation of Privileged Access Management (PAM) strategy
- DevSecOps (threat modelling, setting up pipelines for automated dependency checking, build, static code analysis and unit tests)
- Global Office 365 administration, MFA, Conditional Access policies configuration, Defender for Cloud Apps (MCAS) configuration
- Company-wide management of the infrastructure security, including configuration and management of the on-premises Fortinet firewall, establishing network segregation (e.g., development labs, clinical trials, guest network, telephone network ...), on-premises server security (Linux), identity management (Microsoft Entra ID and Azure Active Directory Domain Services), mobile device management (including BYOD) based on Windows, MacOS and Android, Cloud Security Posture Management and Cloud Workload Protection.
- Design and Implementation of company-wide backup concept

### Senior Project Manager / Architect

Graz, Austria

AVL LIST GMBH

2015 - 2020

- Development lead of a secure Big Data Management and Analytics Platform for Autonomous Driving Assistance Systems (ADAS)
- Consolidate business needs and translate them to platform requirements
- Development of the overall system architecture
- Coordination of development teams and external partners
- Leading role in the acquisition of customer projects with larger OEMs
- Within less than two years we were able to develop an end-to-end solution that enables the scalable analytics of automotive time-series data as well as complex object data coming from smart ADAS sensors. The platform can be operated in the cloud or on-premise and is based on state-of-the-art open source technologies including Kubernetes, Hadoop, Spark, TensorFlow, Elastic Search and Kafka.
- My second major role was content manager and solution architect of AVL's Data.CONNECT initiative. In this initiative we have established several base technologies for the secure integration of AVL's core products. One major output was a federated identity and access management solution, based on OpenID Connect and OAuth2, which is to be rolled out company-wide for AVL's products. The other focus was on a unified and secure data integration framework based on data virtualization and ETL technologies, supporting attribute-based access control.

**Global Coordinator of the EU CRYSTAL project (€ 82M Budget, 70 Partners)***Graz, Austria*

AVL LIST GMBH

*2013 - 2016*

- Global technical and strategic project coordinator of an international research project
- Project focus: interoperability of engineering tools for safety-critical systems
- Technical coordination of the architecture team
- Development of strategic proposals for the steering board
- Development of project management processes
- Communication with the funding authorities of the EU
- Moderating the contractual negotiations with the project partners

**Global Coordinator of the ARTEMIS ACROSS project (€ 16M Budget, 16 Partners)***Vienna, Austria*

VIENNA UNIVERSITY OF TECHNOLOGY, CYBER-PHYSICAL SYSTEMS GROUP

*2010 - 2013*

- Global technical and strategic project coordinator
- Project focus: Mixed-criticality integration for dependable embedded systems in the automotive, aerospace and railway domain

**Assistant Professor (title in Austria: "Univ.-Ass.")***Vienna, Austria*

VIENNA UNIVERSITY OF TECHNOLOGY, CYBER-PHYSICAL SYSTEMS GROUP

*2008 - 2012*

- Coordination and research activities in many national and international industry-oriented projects in the field of safety-critical and secure embedded systems
- Coordination, preparation, and submission of project proposals
- Supervision of master and PhD students, lecturing and other teaching activities in the field of embedded systems
- Consulting on a regular basis for IKERLAN-IK4, a major industrial partner of the institute from the Basque country (Spain)

**Research Assistant***Vienna, Austria*

VIENNA UNIVERSITY OF TECHNOLOGY

*2003 - 2008*

- Research activities in DECOS - Dependable Embedded Components and Systems (integrated project within the EU FP6)
- Consulting and know-how transfer between the Robert Bosch GmbH and the Vienna University of Technology in the field of fault tolerant systems in the automotive sector
- Definition of the EU ARTEMIS Strategic Research Agenda (SRA), personal assistant of Professor Kopetz for leading the SRA group on Reference Designs and Architectures

**Internship at SUPAERO – TOULOUSE***Toulouse, France*

SUPAERO ÉCOLE NATIONALE SUPÉRIEURE DE L'AÉRONAUTIQUE ET DE L'ESPACE

*2002*

- Research in a project dealing with HLA - High Level Architecture (a general purpose architecture for distributed computer simulation systems)

## Education

---

**PhD in Computer Science***Vienna, Austria*

VIENNA UNIVERSITY OF TECHNOLOGY

*2008*

- Completed with distinction

**Diplom-Ingenieur (Computer Sciences)***Vienna, Austria*

VIENNA UNIVERSITY OF TECHNOLOGY

*2003*

- Completed with distinction

## Certifications

---

**Certified Information Systems Security Professional (CISSP)**(ISC)<sup>2</sup>

- Issued May 2019 - Expires May 2025
- Credential ID 689893

**Microsoft Certified: Azure Security Engineer Associate (AZ-500)**

MICROSOFT

- Issued November 2023

## Skills and Competences

---

## **SOcial SKILLS**

- Ability to establish and maintain good working relations with people of different cultural backgrounds obtained through my working experience
- Ability to see the big picture in concrete situations
- Problem-solving attitude
- Analytical thinking
- Excellent presentation skills demonstrated at many international conferences and invited talks
- Ability to create and spread motivation

## **TECHNICAL SKILLS**

- Provide holistic customer support by integrating Cloud Solution Architecture and Cloud Security Architecture
- Gathering business, compliance and technical requirements and translate them into components and controls of a cloud security architecture that improve enterprise security posture
- Cloud Security Posture Management (CSPM)
- Cloud Workload Protection (CWP)
- Conditional Access, MFA and Passwordless Authentication
- Privileged Access Management (PAM)
- Cloud Application Security (e.g., via MS Defender for Cloud App or MCAS)
- Threat modeling and security assessment in the cloud
- Planning, designing and implementing security controls for cloud applications (Azure, AWS, and GCP)
- Collaboration with engineering, infrastructure, development, data and security operations teams to design next-generation secure, resilient and highly available cloud applications
- Embedded Systems and Internet-of-Things
- Safety-Critical Systems & Hard Real-Time Systems
- Big Data Architectures & Scalable Execution Platforms (Hadoop, Spark, Kafka, Elastic Search, Kubernetes, AKS, Docker ...)
- AI and Machine Learning frameworks
- Hands on development experience in multiple programming languages and frameworks (C#, .NET, Python, React, C, C++, Android, iOS, JavaScript, Java, SQL, ...)
- Bridge building between multiple stakeholders in smaller teams as well as on an international global scale
- Infrastructure-as-Code
- Safety Critical Application Domains (e.g., medical devices, automotive, ...)

## **Languages**

---

**German**    Mother tongue

**English**    Full professional proficiency

**French**    Basic level