Abid K.
Senior Product Manager, Software Systems Architect

SUMMARY

Product manager with experience in blockchain development, smart contracts, oracle authenticity, and also creation, implementation, and development of NFT products. - Solid knowledge of blockchain and smart contract. - Strong NFT project management skills. - 10+ years of experience. - Fluent English. - Available ASAP.

TECHNICAL SKILLS

Main Technical Skills	Product Management
Programming Languages	C, C++, JavaScript, PHP, Python, Solidity
JavaScript Frameworks	React
Data Analysis and Visualization Technologies	Business Intelligence (BI) Tools
Databases & Management Systems / ORM	SQL
UI Frameworks, Libraries, and Browsers	HTML
Platforms	AUTOSAR framework
BlockChain and Decentralized Software	DeFi, ETH (Ethereum blockchain), NFT, Smart Contract
Third Party Tools / IDEs / SDK / Services	Labview, MatLab, Simulink
Project Management & Administration	Product Management
Web/App Servers, Middleware	Wildfire Pro
Other Technical Skills	CAD/CAM, CFD, Dassault Systemes Catia, DaVinci Developer, FTC, Mathworks Polyspace, SIMTG

EXPERIENCE

Software Systems Architect, Tata Elxsi Private Limited

SEPTEMBER 2019 - PRESENT
Description: Design, develop and validate an entire end-to-end, standards-compliant,

dynamic platform that supports multiple electrical architectures of an electronic power steering system for an automotive supplier.

Responsibilities:

- Automotive SPICE Level - 3 certified standards compliance.
- ISO26262 Functional safety certified from UL and administered integrity level ASIL-D compliant development process.
- Head the architecture team to design, develop and verify software systems design from the requirement.
- Ensure bidirectional traceability for all artifacts using DOORS as part of requirements engineering SWE.
- Head integration test team develops test cases against software architecture high-level design.
- Verify Software architecture design using several methods including interface analysis, equivalence class tests, boundary value tests, and fault injection tests.
- Oversee BSW (basic software) and MCAL (microcontroller abstraction layer) modules integration and their SAN (safety) analysis.

Model-based design Project Lead, Tata Elxsi Private Limited

SEPTEMBER 2018 - AUGUST 2019

Description: Design, develop and validate entire end-to-end, standards-compliant software components using MATLAB and Simulink, validate at the unit level and ensure bidirectional traceability.

Responsibilities:

- Automotive SPICE Level - 3 and ISO26262 ASIL-D level compliance for software engineering workflows and base practices.
- Head of the team to design, develop and validate MATLAB and Simulink-based models which were able to auto-generate code compliant to AUTOSAR framework.
- Coding Static analysis compliance for generated and manual code using Mathworks Polyspace.
- Model-based design in Simulink, Validation using Model-in-loop environment using Simulink, back-to-back verification Software-in-the-loop of.

Co-founder and CEO, Blockchain Startup

OCTOBER 2017 - SEPTEMBER 2018

Description: Trajectory optimization using mathematical models on-the-chain implementation for last-mile logistics using distributed computing and bookkeeping framework.

Responsibilities:

- Create a framework for optimizing logistics and last-mile delivery services in the city of Paris.
- Use state-of-the-art control methodologies and optimization techniques to achieve optimal trajectory planning for automated delivery.
- Propose a business model and create the pilot proof-of-concept project for live traffic monitoring.
- Live traffic data assimilation into route planning techniques to deliver real-time high-resolution results and guarantee an instant refund for late deliveries.

Researcher, Université Paris-Saclay - CentraleSupélec

OCTOBER 2014 - SEPTEMBER 2017
Description: Sensor fault-diagnosis in complex cyber-physical systems and fault-tolerant control (FTC). Implementing FTC in real-time stabilizing systems.
Responsibilities:

- Mathematical Modelling and systems design of complex cyber-physical systems.
- Testing and innovating on FTC guarantees using set-theoretic control techniques.
- Modeling the classic ball-on-plate control stabilization problem and implementing FTC based on disturbances on the plate using witching-stable control design algorithms.

Intern / Research Assistant, Météo-France

MAY 2014 – SEPTEMBER 2014
Responsibilities:

- Mathematical Modelling and simulation of the effects of Carbon-monoxide and Ozone over the Mediterranean using the proprietary model MOCAGE with the supercomputer BEAUFIX.
- Comparison of the model simulation and an actual project ChArMEx campaign (aircraft data) to see if the inventories and modeling are compatible with actual results.
- Satellite independent data and mapping these simulated models to find the chemistry transport and assimilating these gases into the model to obtain precise forecast methods.
- Worked in a Linux environment with python scripts executing in the supercomputer.

Researcher – Intern, Institut de Recherche en Astrophysique et Planétologie / Optical Research Bench

NOVEMBER 2013 – APRIL 2014
Responsibilities:

- Developing a system design for controlling and testing optical instruments on a test bench for the CTA Project (Cherenkov Telescopic Array).
- Developing software for data acquisition for continuous and pulsed photon beams responses for different optic filters in LabVIEW and modeling high energy Y-ray detection.
- Design optimization of optics like Winston Cones preceding the photomultipliers for varying angular responses and minimum photon loss.

Air India Engineering Operations /Internship Project – Pratt & Whitney 4056 Engine RCC

FEBRUARY 2011 – MARCH 2011, SANTA CRUZ, MUMBAI, INDIA
Responsibilities:

- Project report on the proposed modifications for the present 4000 series engines mounted on Boeing 747.
- A contemporary adaptation of Ring Case Configuration (RCC) on the High-Pressure Compressor (HPC) section of PW 4056 for increased competence, noise reduction, and avoidance of unstable behavior in controlled situations.
- New design concepts increasing efficiency like ATFI (Advanced Technology (Turbo) Fan Integrator.
- New Turbofan concepts, advanced combustor technologies, tie-shaft ring case, blisks, and other proposals for added features using meshing and analysis (CFD) tools to check the integrity and loading.

EDUCATION

University of Toulouse III - Paul Sabatier Joint European Master in Space, Science, and Technology
TOULOUSE, FRANCE

Lulea University of Technology, Erasmus Mundus
KIRUNA, SWEDEN

Julius-Maximilians Universität Würzburg, Joint European Master in Space Science and Technology
WÜRZBURG, GERMANY

The Anna University of Technology, Bachelor of Engineering in Aeronautical Engineering
TAMIL NADU, INDIA

CERTIFICATES

Certificate of Merit
Top 0.1% Successful Candidates all over India for CBSE Class-X examination.

University of Cambridge
EBEK Language Laboratories. Topper for the ESOL Examinations - C1

PUBLICATIONS

WCX SAE World Congress Experience2019, SAE Technical Paper 2019-01-0790, 2019
"Wireless Charging for EV/HEV with Prescriptive Analytics, Machine Learning, Cybersecurity, and Blockchain Technology: Ongoing and Future Trends"

Australian Control Conference: AUCC 2015, Gold Coast, QLD: Engineers Australia, 2015: 202-207
"Sensor fault detectability analysis for discrete LTI systems. A positive invariance based approach"

3rd International Conference on Control and Fault-Tolerant Systems
"Switching-stable control mechanism in the presence faults"

IFAC World Congress
"Observer-based Sensor Fault Detectability"

International Conference on System Theory, Control and Computing Sinaia, Romania 2017
"FTC design and implementation in Ball and Plate structure"