

Hiring software engineer as easy as calling a taxi.

# Abid K.

## 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.

### SKILLS

<b>Main Technical Skills</b>	Product Management
<b>Programming Languages</b>	C, C++, JavaScript, PHP, Python, Solidity
<b>UI Frameworks, Libraries, and Browsers</b>	HTML
<b>JavaScript Frameworks</b>	React
<b>Data Analysis and Visualization Technologies</b>	Business Intelligence (BI) Tools
<b>Databases &amp; Management Systems / ORM</b>	SQL
<b>BlockChain and Decentralized Software</b>	DeFi, ETH (Ethereum blockchain), NFT, Smart Contract
<b>Third Party Tools / IDEs / SDK / Services</b>	Labview, MatLab, Simulink
<b>Project Management &amp; Administration</b>	Product Management
<b>Web/App Servers, Middleware</b>	Wildfire Pro
<b>Other Technical Skills</b>	AUTOSAR framework, 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 switching-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 Experience 2019, 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”

