

JOB DESCRIPTION

Division/Department:	Automotive and Industrial Products Business Unit		
Job Location:	Bangalore		
Working Arrangement:	WFO		
Visa Status:	NA	Title:	Embedded Developer (Cryptocomm)
Level/Grade	L3	Type of position:	Hours 40 / week
		<input checked="" type="checkbox"/> Full-time <input type="checkbox"/> Part-time <input type="checkbox"/> Contractor <input type="checkbox"/> Intern	<input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Nonexempt
<b>GENERAL DESCRIPTION</b>			
<p><b>Key responsibilities include:</b></p> <ul style="list-style-type: none"> <li>• Experience of Cryptographic abstraction layer or adapter API for ECUs using a POSIX-compliant OS</li> <li>• Understand and interpret the Customer Cybersecurity Requirements and derive relevant SW requirements &amp; architecture suggestions</li> <li>• Specifications of Technical security requirements; software security concepts; develop security mechanisms, including its synthesis in HW/SW, in accordance with ISO SAE 21434 &amp; UNECE R-155/156</li> <li>• Development of Cybersecurity requirements based around Android Keymaster/KeyMint, PKCS#11 or the Global Platform TEE Client API</li> <li>• Develop cybersecurity requirements for on the targets like Samsung Exynos v910, Nvidia Orin-X , Qualcomm SA2150P and SA515M &amp; MDM-9628.</li> <li>• Development abstraction or wrapping layer in C/C++ compliant with MISRA-C or Autosar-C++-14, CERT-C/C++, Linux, QNX and android (NDK)</li> </ul>			
<b>WORK EXPERIENCE REQUIREMENTS</b>			
- 5 – 15 years			
<b>EDUCATION REQUIREMENTS</b>			
- Bachelor's Degree in Electronics			

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#### SKILL REQUIRED TO SUCCEED IN THIS JOB

##### Essential Skills

- Engineering or Post Graduate Engineering degree in Electronics/Computer Science Engineering
- 8 to 10 years of relevant experience in Automotive domain
- Minimum of 3 years of experience in Automotive Cyber Security.
- Skills and competencies:
  - Strong experience in developing C++ on Linux platform and RTOS
  - Experience in crypto algorithms like RSA, AES, SHA, CMAC, etc.
  - Experience with Linux device driver development
  - Understanding of automotive standards and methodologies like ISO/SAE 21434, UNECE R-155/156, TARA etc.
  - Experience with Embedded Linux, Auto Android and QNX
  - Cyber Security testing like Functional, Fuzz and Penetration testing
  - Experience of working in Scrum team in Agile methodology
  - Good experience on implementing cyber security requirements for accessing secure storage, random number generation and other security functions on SOC
  - Develop cybersecurity requirements for on the targets like Samsung Exynos v910, Nvidia Orin-X , Qualcomm SA2150P and SA515M & MDM-9628

#### Company Overview

AXISCADES is a leading provider of comprehensive technology & engineering solutions, dedicated to driving innovation and excellence across diverse industries ranging from Aerospace, Defence, Automotive to Embedded and Energy sectors.

With 35+ years of expertise and a global presence across North America, Europe and Asia Pacific, AXISCADES offers a broad spectrum of services encompassing digital transformation solutions, embedded electronics solutions, product engineering & manufacturing support. Leveraging cutting-edge technologies and a team of skilled professionals, the company specializes in delivering end-to-end solutions tailored to meet the unique needs of our clients.

**3500+** Engineers, **17** Global Offices, Listed on **Indian Stock Exchange:** Both NSE & BSE, Headquartered in **Bengaluru.**

At AXISCADES, our focus extends beyond project delivery, we're dedicated to nurturing talent and shaping careers. As a premier provider of engineering services, we cultivate a vibrant and inclusive workplace culture

conducive to personal and professional growth. Here, individuals are empowered to flourish and evolve within a dynamic and supportive environment with exposure to clients from multiple geographies and industries.

### **Automotive**

Within the automotive industry, AXISCADES is a preferred partner for engineering solutions across the entire product development lifecycle. Our services encompass a wide range of disciplines, from concept design and analysis to manufacturing simulation and production support.

AXISCADES' core competencies include Vehicle Electronics subsystem design, covering everything from active safety systems and driver assistance features (ADAS) to body control units and infotainment systems. We have strategically evolved to cultivate extensive capabilities aimed at catalysing the transformation of urban mobility in terms of CASE ("Connected", "Autonomous", "Shared", and "Electric"), SDV (Software Defined Vehicles) & ADAS (Advanced Driver Assistance Systems).

In vehicle engineering, our team boasts a distinguished track record in product design, analysis and manufacturing engineering solutions, showcasing expertise across a diverse spectrum of areas. These include Body in White/Chassis in White (BIW/CIW), Chassis, Powertrain, Interiors, Plastics, Localization, Prototyping and Supply Chain Management (SCM).

AXISCADES' commitment to the automotive domain extends beyond traditional engineering, as we also offer solutions in additive manufacturing and digitalization, empowering clients to leverage cutting-edge technologies for a future-proof development process.

### **Key Pointers**

- Over two decades of delivery excellence
- Trusted partner for leading Automotive OEMs in India, Europe, and North America
- Service provider across a broad spectrum of automotive segments, including Commercial Vehicles, Trucks, Buses, Cars, and SUVs
- Over 10 years of specialized experience in Safety-Critical Automotive Electronics, encompassing ADAS, Autonomous driving technologies, and more
- Spearheading the advancement of Software Defined Vehicles, transformation of Urban mobility (CASE).
- Expertise in AutoSAR, HiL Testing & Validation, as well as Safety and SPICE-compliant product development.