

## Principal Engineer, Systems Design/Architecture

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Company: Analog Devices

Location: Saryyer

Category: other-general

### **System Architect with focus on User Experience – Automotive Serial Links**

#### **Job Description:**

ADI's highly successful Gigabit Multimedia Serial Links (GMSL) products provide up to 12Gbps of video and data transport over a single wire, up to 15m. GMSL SerDes links are used by over 30 Automotive OEMs, with over 900M links on the road.

As part of ADI's GMSL SerDes Product Definition team, you will play a key role in developing cutting edge automotive video and data connectivity solutions. Working with a talented team of software and hardware engineers, you will be responsible for designing, documenting, and supporting the user experience for the GMSL SerDes product line. This is a unique opportunity for someone who is passionate about developing embedded solutions and hardware/software integration. You'll be involved in the complete product life cycle from system architecture through internal validation to customer system mass production.

#### **Responsibilities include:**

Architect and write requirements for product-line approach to on-silicon and on-target firmware and software stacks

Define customer-facing APIs and ensure consistency across 30+ hardware products

Collaborate with key stakeholders to drive deployment of software architecture into product line roadmaps and device implementations

Gain understanding of customer requirements for user interface and system integration

Provide critical and constructive feedback on new hardware development to improve software quality and user experience

Become a product expert in high-speed automotive serial links

Understand automotive software standards and development processes

Influence development of stand-alone software tools (GUIs) using Visual Studio and Python

Travel (domestic and international) will be required for customer discussions and support and to meet with ADI's global design and applications teams

### **Requirements:**

Bachelor's or Master's degree in Electrical Engineering, Computer Engineering, or Computer Science, with 10+ years experience, or PhD with 6+ years experience

Knowledge of automotive software environments and compliance requirements

Strong understanding of EE fundamentals and analog/digital electronics

High speed serial links experience and knowledge of serial communications protocols such as I2C, UART, SPI, and Ethernet

Excellent verbal and written communication skills

Self-motivated, with the ability to collaborate with cross-functional and interdepartmental teams

### **Preferred Qualifications**

Understanding of SoC components (ROM, DMA, CCM, Interrupts, OTP Memory) and attached peripherals (ADC, DAC, I2C, SPI) and ability to write the code that interacts with them

Strong knowledge of Object-oriented programming (Visual Studio), C/C++/C#, Python programming

Knowledge of embedded Linux, QNX, and Android Automotive OS

Working knowledge of video transmission standards (HDMI, DisplayPort, CSI, DSI)

Experience in writing ISRs (Interrupt Service Routines) and real-time programming

Working knowledge of automotive electronic systems, particularly ADAS and Infotainment

Working knowledge of automotive safety, security, and quality standards

Job Req Type: Experienced Required Travel: Yes, 10% of the time Shift Type: 1st

Shift/Days

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