



'Ever Researching for a Brighter World'

Job Description – SENIOR SYSTEM ARCHITECT

in our Product Development Team at
Nichia Automotive Innovation Center GmbH (Würselen, near Aachen).

Summary of Position

The Senior System Architect in the Program & Product Management team is responsible for leading the design, optimization, and release of LED and laser based automotive front lighting product solutions while providing technical leadership to small teams.

Success in this role means delivering high-quality, manufacturable solutions, managing supplier and customer relationships, driving innovation, mentoring junior staff, and contributing strategically to NAIC development goals.

Your Key Responsibilities

- **Product & Process Design**
 - System Knowledge Collection: Collect system and application knowledge.
 - Design Leadership: Counsel the design and development of product and process solutions.
 - Documentation Ownership: Create and maintain product documentation and specifications.
 - Design Review Leadership: Participate in design reviews and ensure compliance with technical standards and company procedures.
 - Cross-Disciplinary Leadership: Be the link between mechanical, electrical, optical and thermal disciplines.
 - Validation Leadership: Support validation activities according to automotive quality standards (IATF 16949).

- **Supplier & Customer Interaction**

- Supplier Management: Manage internal and external supplier relationships autonomously.
- Specification Ownership: Develop component specifications, support purchasing activities, and oversee supplier performance.
- Customer Communication Leadership: Maintain professional and autonomous customer communication, understand customer requirements and translate these into system layouts.
- Requirement Definition: Collaborate with customers and internal experts to create product specifications.
- Technical Collaboration: Support business development and sales activities with technical expertise.

- **Work Execution & Leadership**

- Task Definition & Structuring: Define and structure work packages from broad project objectives.
- Target Responsibility: Create and execute team strategies to achieve technical and business targets.

- **Equipment & Tools**

- operational readiness, maintenance, and calibration of engineering tools.
- Tool Definition & Selection: Define, select, and purchase new development equipment and software.
- Laboratory Operation: Operate laboratory and production equipment safely and correctly.
- Tool Readiness Responsibility: Ensure operational readiness, maintenance, and calibration of engineering tools.

- **Innovation & Strategic Development**

- Technology Research Leadership: Expand knowledge by benchmarking, technology scouting, conference visits, workshops and fair visits.
- Innovation Ownership: Contribute to innovation funnel and strategic roadmaps of NAIC.
- Innovation Project Leadership: Initiate, plan and conduct innovation projects in automotive lighting.

- IP Generation: Generate intellectual property.
- **Additional Responsibilities & Process Improvement**
 - Strategic Contribution: Provide input for roadmaps and contribute to cross-functional collaboration within Nichia.
 - Continuous Improvement Leadership: Foster a culture of innovation, quality, and continuous improvement.
 - Travel Readiness: Occasionally travel to attend meetings, trainings, conferences, or events.
 - Process Optimization Ownership: Proactively contribute to the enhancement of internal processes by identifying areas for improvement and implementing solutions to increase efficiency.
 - Professional Development Commitment: Commit to continuous learning and professional development to adapt to evolving business needs.

Supervisory Responsibility

- Not a supervisory position

Reporting

- Reports to: Manager – Automotive Innovation Center

Your Qualifications

- Technical Expertise: Advanced knowledge in automotive front lighting. Advanced knowledge of Light Emitting Diodes (LEDs). Knowledge of product and process development.
- Leadership: Mentoring and project management skills.
- Collaboration: Ability to coordinate across disciplines and global functions.
- Strategic Thinking: Capability to align engineering work with business goals.
- Industry Network: Well-connected within the automotive industry; established relationships across OEMs, Tier 1 suppliers, and key ecosystem partners are a plus.

Your Education and Experience

- Degree: Universal degree in Physics or Engineering, preferably with a PhD degree.

- Experience: 5–10 years of experience in automotive development.

Shine with Us – What makes our Team so bright

- You will join a team that operates in a start-up-like environment with flat hierarchies, fast decision-making processes, and strong alignment with our global headquarters in Japan.
- The role includes practical and theoretical work.
- Creating real customer impact is central to our work, with a strong focus on end-user applications and meaningful outcomes.
- NAIC stands out as a high-tech, dynamic, and highly competent organization that consistently pushes boundaries.
- Our activities span service design, product development, and innovation, offering a diverse and engaging professional environment.

Your application

If you are highly motivated and have a distinct ability to work in teams, please send your CV and a motivation letter in English per e-mail to our Human Resources department at career-germany@nichia.com.