



## Staff Engineer Software & Firmware Engr

### Job description

This is a technical role with the primary responsibility of Software Development for Test of JavaCard OS for the Payment applications and electronic ID applications based on GP platform and Java Card Specifications. Strong technical knowledge with the ability to interact with various stakeholders across the organization and the team members is required for success in this position.

- Work closely with Technical Marketing, Concept Engineer to understand the functional & non-functional requirements of various electronic ID applications (Ex: Payment, ePassport, eID, eDriving License)
- Shall be responsible for understanding all relevant technical specifications (Global platform / Java Card) to define test strategy, define test plan, test identification and test implementation
- Own test architecture, design and drive implementation and automation
- Shall be responsible for applying formal techniques for test design such as orthogonal arrays, boundary value analysis, Decision Tables, Equivalence partitioning, state transitions, use cases, performance and robustness
- Shall be responsible for failure analysis and bug reporting.
- Shall be responsible for developing re-usable libraries for productivity improvements
- Prepare system test reports for internal and external use
- Continuously build knowhow and guide the team members
- Coordinate with the project manager in estimation, project planning and technical risk identification
- Actively contribute in the entire SDLC for the product development
- Own and deliver the modules meeting the timelines, quality, security and footprint requirements
- Debug and solve problems during test case/test tool framework development
- Contribute to the technical documentation of the product
- Train and support AEs to use the test cases and test framework for customer support
- Strong focus on automation of processes using latest tools
- Work with cross site teams to resolve complex technical problems
- Identify and drive continuous improvement and innovation topics
- Be an active member of the cross functional team to meet the project objectives

### At a glance

Location: **Bangalore (India)**  
Job ID: **348560**  
Start date: **as soon as possible**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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### Contact

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### Profile



### **Must have:**

1. Experience in software testing methodologies
2. 5+ years of experience in OO programming (C# / Java)
3. Experience of using formal techniques for test design such as orthogonal arrays, boundary value analysis, Decision Tables, Equivalence partitioning, state transitions, use cases, performance and robustness
4. Design test specifications from standard specifications
5. Sound knowledge of Black box testing with Automation
6. Experience in issue reporting and resolution by interacting with all stakeholders
7. Demonstrated with proven results for continuous improvements
8. Exposure to Agile Scrum methodologies will be an added advantage.
9. Prior experience in implementing standard test specification will be an added advantage.
10. Shall be a quick learner. Good in quickly understanding technical standards and specifications.
11. Shall possess good analytical skills and be an excellent problem solver
12. Shall possess good communication skills and be an excellent team player

### **Good to have:**

1. Solid knowledge in standards like ISO 7816, ISO 14443, Global Platform, Java Card, EMV
2. Strong knowledge of Java Card specifications JCRC, JCVM, JCAPL.
3. Strong knowledge of global platform specifications GP2.3, Amd A, C, D, E, F
4. Experience of GP2.2 and GP2.3 Test specifications and Test Implementation.
5. Knowledge of smart card applications (Ex: Payment e-Passport, e-Driving License) is an add on
6. Knowledge of ISO7816 specs and communication protocols (T=0, T=1, T=CL)
7. Knowledge of cryptography, authentication and secure messaging schemes.

## Benefits

- **Bangalore:** Coaching, mentoring & networking possibilities ; Wide range of training offers & planning of career development; Regional and local talent programs; International assignments; Career paths: Management career, Project management career, Technical ladder career, Individual contributor career, Professional career; Flexible work timing, Part time work, Work from home; Home office; Health & wellness reimbursement, Employee motivation forum, Spoorthi – Diversity club, Master health check up, Health promotion campaigns; Crèche facility; Annual success bonus; Mediclaim (dependents & top up), Personal accident, Term life; National Pension Scheme; Health promotion programs; Statutory benefits; Access for wheelchairs; On-site canteen; Paid sick leave, long term illness leave; On site Yoga classes, Sports club

## Why Us

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Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

The Connected Secure Systems (CSS) segment offers comprehensive systems for a secure, networked world with a portfolio built around reliable, trendsetting microcontrollers as well as wireless connectivity and security solutions. Over the past decades, CSS has developed microcontroller, Wi-Fi, Bluetooth and combined connectivity solutions (known as connectivity combos) and hardware-based security technologies. The products are used in a broad range of applications: from consumer electronics, IoT and home appliances to IT equipment, cloud security and networked cars all the way to credit and debit cards, electronic passports and IDs. With its leading technologies in the areas of computing, connectivity and security, CSS makes a decisive contribution to protecting today's and tomorrow's networked systems.



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