

Hardware Debugger, System Engineer, DevOps, and Back-End Engineer

A tech company that develops and customizes enterprise-level software solutions

Major: degree in Electrical Engineering, Computer Engineering, Computer Science, or any related field

Experience: 0-5 years of experience.

1- Hardware Debugger - Robotics:

Major Responsibilities:

- Identify and resolve hardware issues in robotic systems through systematic debugging and troubleshooting.
- Develop and execute test plans to validate the functionality and reliability of hardware components within robotic systems.

Additional Requirements:

- Strong knowledge of electrical engineering principles.
- Proficiency in using debugging tools and equipment.
- Familiarity with robotic systems and sensors.
- Excellent problem-solving and analytical skills.
- Adaptability: Ability to adapt to evolving project requirements and contribute to multiple aspects of hardware development.
- Experience with robotics development frameworks such as ROS 2
- Proficiency in OOP. A good knowledge of C++ is mandatory; Python knowledge is a plus.
- Good understanding of Control Systems, data structures, and algorithms.
- Comfortable working in large code-bases and optimizing performance of deployed solutions.
- Fluent in English; German language skills are a bonus.
- Comfortable working in a highly agile, intensely iterative software development process.

2- System Engineer:

Major Responsibilities:

- Run the production environment by monitoring availability and taking a holistic view of system health.
- Build software and systems to manage platform infrastructure and applications.
- Collaborate with your team on multidisciplinary projects.
- Gather and analyze metrics from operating systems as well as applications to assist in performance tuning and fault finding.
- Collaborate with development teams to improve services through rigorous testing and release procedures.
- Participate in system design consulting, platform management, and capacity planning.
- Balance feature development speed and reliability with well-defined service-level objectives
- Perform root cause analysis of production errors and resolve technical issues.
- Create, update, and maintain documentation of environment and operational procedures.

Additional Requirements:

- Ability to program (structured and OOP) using one or more high-level languages, such as Python, C/C++, and JavaScript.
- Knowledge in identification and implementation of cloud operational best practices.
- Experience with network infrastructure and hardware.

- Knowledge in capacity, storage planning, and database performance.
- Good understanding of messaging broker like RMQ, SQS or Kafka.
- Experience in monitoring and observability tools like Prometheus, Grafana, Datadog, Promtail
- Deep knowledge of IT, including hardware, software, and networks.
- Meticulous eye for detail and an ability to multitask in a fast-paced environment.
- Knowledge of virtualization tools (VMware, Hyper-V, etc.)

3- Devops:

Major Responsibilities:

- Deploy, manage, and operate scalable, highly available, and fault-tolerant systems on the cloud.
- Collaborate with your team on larger projects.
- Test and examine code written by others and analyzing results.
- Work on ways to automate and improve development and release processes.
- Perform root cause analysis of production errors and resolve technical issues.

Additional Requirements:

- Python knowledge would be ideal.
- Knowledge in identification and implementation of cloud operational best practices.
- Confidence in handling the maintenance, configuration, and reliable operation of computer systems, network servers, and virtualization.
- Knowledge in capacity, storage planning, and database performance.
- Knowledge in AWS or Kubernetes is a plus.

4- Back-End Engineer:

Major Responsibilities:

- Design, deploy, monitor, and maintain a service up to production.
- Develop web applications using best practices for .NET core.
- Develop web applications using a specific service architecture (micro services, monolithic).
- Develop web applications under different code architectures (n-tier, CQRS, etc...).
- Develop web applications using different programming languages.
- Identify the need of using design patterns while developing feature work or refactoring code.
- Understand and work with synchronous and asynchronous communication protocols.
- Use real-time protocols to send live updates on web applications.
- Document the project's different layers using C4 models.
- Work with and develop reusable packages that might be used in multiple web applications.
- Include unit testing and work on increasing test coverage.
- Learn and work with multi-tasking, multi-threading, and parallel programming concepts.
- Work with SQL and no SQL databases knowing connection and querying best practices.
- Use logging best practices while developing feature work, taking into consideration how, what, and when to log.

How to Apply:

Kindly send your CV or contact the Career Services Center, E-mail: career.services@balamand.edu.lb, Ext. 7801; 7802