

# Embedded Systems Internship with Accommodation at Kolkata

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**50**  
Active Categories

**10**  
Focused Areas

**Kolkata**  
Accommodation Location

## How to View Accommodation Details and Booking Options

1. Open the Internships page or the corresponding Topics page.
2. Select the relevant focused area.
3. Select the available duration, mode and internship type.
4. Choose **Offline** mode to access accommodation booking options.
5. Continue to the fee/payment page and use the **Branches Select Option**.
6. After selecting the branch, use **Book NTHRYS Accommodation** to view accommodation fee, facility photographs, amenities and the available booking details.

## Embedded Systems Internship Categories

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| <b>AI Real-Time OS Design Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-real-time-os-design-research">https://internships.nthrys.com/embedded-systems/ai-real-time-os-design-research</a>                                                    | <b>Machine Learning Embedded Sensing Research</b><br><a href="https://internships.nthrys.com/embedded-systems/machine-learning-embedded-sensing-research">https://internships.nthrys.com/embedded-systems/machine-learning-embedded-sensing-research</a>                      |
| <b>AI IoT Embedded Architecture Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-iot-embedded-architecture-research">https://internships.nthrys.com/embedded-systems/ai-iot-embedded-architecture-research</a>                                  | <b>AI Secure Embedded Computing Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-secure-embedded-computing-research">https://internships.nthrys.com/embedded-systems/ai-secure-embedded-computing-research</a>                                     |
| <b>AI Energy-Harvesting Embedded Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-energy-harvesting-embedded-research">https://internships.nthrys.com/embedded-systems/ai-energy-harvesting-embedded-research</a>                               | <b>AI Wearable Embedded Systems Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-wearable-embedded-systems-research">https://internships.nthrys.com/embedded-systems/ai-wearable-embedded-systems-research</a>                                     |
| <b>AI Automotive Embedded Systems Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-automotive-embedded-systems-research">https://internships.nthrys.com/embedded-systems/ai-automotive-embedded-systems-research</a>                            | <b>AI TinyML Embedded Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-tinyml-embedded-research">https://internships.nthrys.com/embedded-systems/ai-tinyml-embedded-research</a>                                                                   |
| <b>AI Hardware-Software Co-Design Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-hardware-software-co-design-research">https://internships.nthrys.com/embedded-systems/ai-hardware-software-co-design-research</a>                            | <b>AI Medical Embedded Systems Research</b><br><a href="https://internships.nthrys.com/embedded-systems/ai-medical-embedded-systems-research">https://internships.nthrys.com/embedded-systems/ai-medical-embedded-systems-research</a>                                        |
| <b>Real-Time Operating System Optimization Research</b><br><a href="https://internships.nthrys.com/embedded-systems/real-time-operating-system-optimization-research">https://internships.nthrys.com/embedded-systems/real-time-operating-system-optimization-research</a> | <b>Edge Computing Microcontroller Architecture Study</b><br><a href="https://internships.nthrys.com/embedded-systems/edge-computing-microcontroller-architecture-study">https://internships.nthrys.com/embedded-systems/edge-computing-microcontroller-architecture-study</a> |
| <b>Wireless Protocol Stack Implementation Research</b><br><a href="https://internships.nthrys.com/embedded-systems/wireless-protocol-stack-implementation-research">https://internships.nthrys.com/embedded-systems/wireless-protocol-stack-implementation-research</a>    | <b>Memory-Constrained Algorithm Optimization Study</b><br><a href="https://internships.nthrys.com/embedded-systems/memory-constrained-algorithm-optimization-study">https://internships.nthrys.com/embedded-systems/memory-constrained-algorithm-optimization-study</a>       |
| <b>FPGA Reconfigurable Computing Design Research</b><br><a href="https://internships.nthrys.com/embedded-systems/fpga-reconfigurable-computing-design-research">https://internships.nthrys.com/embedded-systems/fpga-reconfigurable-computing-design-research</a>          | <b>Embedded Linux Kernel Driver Development Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-linux-kernel-driver-development-research">https://internships.nthrys.com/embedded-systems/embedded-linux-kernel-driver-development-research</a> |

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| <b>Power Management Firmware Optimization Research</b><br><a href="https://internships.nthrys.com/embedded-systems/power-management-firmware-optimization-research">https://internships.nthrys.com/embedded-systems/power-management-firmware-optimization-research</a>                   | <b>Cyber-Physical System Testing Framework Study</b><br><a href="https://internships.nthrys.com/embedded-systems/cyber-physical-system-testing-framework-study">https://internships.nthrys.com/embedded-systems/cyber-physical-system-testing-framework-study</a>                                  |
| <b>Sensor Fusion Algorithm Implementation Research</b><br><a href="https://internships.nthrys.com/embedded-systems/sensor-fusion-algorithm-implementation-research">https://internships.nthrys.com/embedded-systems/sensor-fusion-algorithm-implementation-research</a>                   | <b>Bare-Metal Firmware Architecture Research</b><br><a href="https://internships.nthrys.com/embedded-systems/bare-metal-firmware-architecture-research">https://internships.nthrys.com/embedded-systems/bare-metal-firmware-architecture-research</a>                                              |
| <b>Industrial IoT Protocol Bridge Development Research</b><br><a href="https://internships.nthrys.com/embedded-systems/industrial-iot-protocol-bridge-development-research">https://internships.nthrys.com/embedded-systems/industrial-iot-protocol-bridge-development-research</a>       | <b>Embedded Vision Processing Pipeline Study</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-vision-processing-pipeline-study">https://internships.nthrys.com/embedded-systems/embedded-vision-processing-pipeline-study</a>                                              |
| <b>CAN Bus Communication Reliability Research</b><br><a href="https://internships.nthrys.com/embedded-systems/can-bus-communication-reliability-research">https://internships.nthrys.com/embedded-systems/can-bus-communication-reliability-research</a>                                  | <b>Embedded Database Management System Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-database-management-system-research">https://internships.nthrys.com/embedded-systems/embedded-database-management-system-research</a>                                     |
| <b>Real-Time Clock Synchronization Protocols Study</b><br><a href="https://internships.nthrys.com/embedded-systems/real-time-clock-synchronization-protocols-study">https://internships.nthrys.com/embedded-systems/real-time-clock-synchronization-protocols-study</a>                   | <b>Embedded Cryptography Implementation Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-cryptography-implementation-research">https://internships.nthrys.com/embedded-systems/embedded-cryptography-implementation-research</a>                                  |
| <b>Multi-Core Embedded System Load Balancing Study</b><br><a href="https://internships.nthrys.com/embedded-systems/multi-core-embedded-system-load-balancing-study">https://internships.nthrys.com/embedded-systems/multi-core-embedded-system-load-balancing-study</a>                   | <b>Embedded Network Stack Optimization Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-network-stack-optimization-research">https://internships.nthrys.com/embedded-systems/embedded-network-stack-optimization-research</a>                                     |
| <b>Firmware Update Over-The-Air Mechanism Research</b><br><a href="https://internships.nthrys.com/embedded-systems/firmware-update-over-the-air-mechanism-research">https://internships.nthrys.com/embedded-systems/firmware-update-over-the-air-mechanism-research</a>                   | <b>Embedded Audio Processing System Design Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-audio-processing-system-design-research">https://internships.nthrys.com/embedded-systems/embedded-audio-processing-system-design-research</a>                         |
| <b>RTOS Task Scheduling Analysis Research</b><br><a href="https://internships.nthrys.com/embedded-systems/rtos-task-scheduling-analysis-research">https://internships.nthrys.com/embedded-systems/rtos-task-scheduling-analysis-research</a>                                              | <b>Embedded Systems Performance Profiling Study</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-systems-performance-profiling-study">https://internships.nthrys.com/embedded-systems/embedded-systems-performance-profiling-study</a>                                     |
| <b>Robotic Motion Control Implementation Research</b><br><a href="https://internships.nthrys.com/embedded-systems/robotic-motion-control-implementation-research">https://internships.nthrys.com/embedded-systems/robotic-motion-control-implementation-research</a>                      | <b>Embedded Display Driver Development Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-display-driver-development-research">https://internships.nthrys.com/embedded-systems/embedded-display-driver-development-research</a>                                     |
| <b>Thermal Management in Embedded Devices Study</b><br><a href="https://internships.nthrys.com/embedded-systems/thermal-management-in-embedded-devices-study">https://internships.nthrys.com/embedded-systems/thermal-management-in-embedded-devices-study</a>                            | <b>Software Watchdog and Fault Recovery Research</b><br><a href="https://internships.nthrys.com/embedded-systems/software-watchdog-and-fault-recovery-research">https://internships.nthrys.com/embedded-systems/software-watchdog-and-fault-recovery-research</a>                                  |
| <b>Embedded Communication Latency Optimization Study</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-communication-latency-optimization-study">https://internships.nthrys.com/embedded-systems/embedded-communication-latency-optimization-study</a>             | <b>Universal Serial Bus Device Firmware Research</b><br><a href="https://internships.nthrys.com/embedded-systems/universal-serial-bus-device-firmware-research">https://internships.nthrys.com/embedded-systems/universal-serial-bus-device-firmware-research</a>                                  |
| <b>Embedded Machine Vision Calibration Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-machine-vision-calibration-research">https://internships.nthrys.com/embedded-systems/embedded-machine-vision-calibration-research</a>                            | <b>Resource Monitoring and Allocation Framework Study</b><br><a href="https://internships.nthrys.com/embedded-systems/resource-monitoring-and-allocation-framework-study">https://internships.nthrys.com/embedded-systems/resource-monitoring-and-allocation-framework-study</a>                   |
| <b>Embedded System Debugging and JTAG Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-system-debugging-and-jtag-research">https://internships.nthrys.com/embedded-systems/embedded-system-debugging-and-jtag-research</a>                               | <b>Modular Firmware Architecture Pattern Study</b><br><a href="https://internships.nthrys.com/embedded-systems/modular-firmware-architecture-pattern-study">https://internships.nthrys.com/embedded-systems/modular-firmware-architecture-pattern-study</a>                                        |
| <b>Analog-to-Digital Converter Sampling Research</b><br><a href="https://internships.nthrys.com/embedded-systems/analog-to-digital-converter-sampling-research">https://internships.nthrys.com/embedded-systems/analog-to-digital-converter-sampling-research</a>                         | <b>Embedded Machine Learning Model Compression Study</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-machine-learning-model-compression-study">https://internships.nthrys.com/embedded-systems/embedded-machine-learning-model-compression-study</a>                      |
| <b>Haptic Feedback Controller Implementation Research</b><br><a href="https://internships.nthrys.com/embedded-systems/haptic-feedback-controller-implementation-research">https://internships.nthrys.com/embedded-systems/haptic-feedback-controller-implementation-research</a>          | <b>Embedded System Emulation and Simulation Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-system-emulation-and-simulation-research">https://internships.nthrys.com/embedded-systems/embedded-system-emulation-and-simulation-research</a>                      |
| <b>Real-Time Event Logging and Tracing Study</b><br><a href="https://internships.nthrys.com/embedded-systems/real-time-event-logging-and-tracing-study">https://internships.nthrys.com/embedded-systems/real-time-event-logging-and-tracing-study</a>                                     | <b>Embedded System Certification and Standards Research</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-system-certification-and-standards-research">https://internships.nthrys.com/embedded-systems/embedded-system-certification-and-standards-research</a>             |
| <b>Power Consumption Profiling and Optimization Research</b><br><a href="https://internships.nthrys.com/embedded-systems/power-consumption-profiling-and-optimization-research">https://internships.nthrys.com/embedded-systems/power-consumption-profiling-and-optimization-research</a> | <b>Embedded System Documentation Generation Framework Study</b><br><a href="https://internships.nthrys.com/embedded-systems/embedded-system-documentation-generation-framework-study">https://internships.nthrys.com/embedded-systems/embedded-system-documentation-generation-framework-study</a> |

# Embedded Systems Internship Topics and Focused Areas

## AI Automotive Embedded Systems Research

- Neural Network Optimization for Edge Devices
- Real-time Object Detection for Autonomous Vehicles
- Hardware-Software Co-design for AI Inference
- Sensor Fusion and Multi-modal Learning Systems
- Safety and Robustness Testing for AI-based Autonomous Systems

## Real-Time Operating System Optimization Research

- Task Scheduling Algorithm Optimization
- Memory Management and Cache Optimization in RTOS
- Interrupt Handling and Latency Reduction
- Power-Aware Real-Time System Design
- Predictability Analysis and Worst-Case Execution Time (WCET) Estimation

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