

# Gantt Chart

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## Phase 1: Project Initiation and Learning

- ☐ Familiarize with sensor-based traffic control technologies due Aug 24, 2023  
Priority: High
- ☐ Gaining Insights into traffic signal systems and congestion management due Aug 24, 2023  
Priority: High
- ☐ Conducting Literature review due Aug 24, 2023  
Priority: High  
Status: On track
- ☐ Learning Phase due Aug 24, 2023  
Priority: Medium  
Status: On track
- ☐ Identify Stakeholders and roles. due Aug 16, 2023  
Status: On track  
Priority: Medium
- ☐ Define scope and objective of project due Aug 13, 2023  
Priority: High
- ☐ **leo**: Project Kickoff Meeting due Aug 16, 2023  
Priority: Low  
Status: On track

## Phase 2: System Design and Planning

- ☐ Select hardware components and communication protocols due Sep 7, 2023  
Priority: High
- ☐ Gather detailed requirements for the traffic signal system due Aug 31, 2023  
Priority: High
- ☐ System Architecture Design due Sep 7, 2023  
Priority: Medium  
Status: On track
- ☐ create list of essential features and functionalities due Aug 31, 2023  
Priority: High
- ☐ Design a high-level system architecture due Sep 7, 2023  
Priority: High
- ☐ **leo**: Requirement Analysis due Aug 31, 2023  
Priority: Medium  
Status: On track

### Phase 3: Development and Testing

- ☐ Conduct integration testing of the system due Oct 5, 2023  
Priority: High
- ☐ Calibrate sensors for accurate traffic density measurements due Sep 28, 2023  
Priority: High
- ☐ Testing and Calibration due Oct 5, 2023  
Priority: Medium
- ☐ Assemble the hardware components according to the design due Sep 21, 2023  
Priority: High
- ☐ Procure necessary components due Sep 16, 2023  
Priority: High
- ☐ Hardware Implementation due Sep 21, 2023  
Priority: Medium
- ☐ Implement traffic data processing and signal timing algorithms due Sep 14, 2023  
Priority: High
- ☐ Develop the embedded software for the controller unit due Sep 12, 2023  
Priority: High
- ☐ Embedded Software Development due Sep 14, 2023  
Priority: Medium

### Phase 4: Deployment and Field Testing

- ☐ Analyze collected data to optimize the system for traffic management due Oct 26, 2023  
Priority: High
- ☐ Fine-Tuning and Optimization due Oct 26, 2023  
Priority: Medium
- ☐ Monitor system performance and gather data due Oct 19, 2023  
Priority: High
- ☐ Deploy the traffic signal system at a selected junction for pilot testing due Oct 11, 2023  
Priority: High
- ☐ Pilot Deployment due Oct 19, 2023  
Priority: Medium

### Phase 5: Documentation and Knowledge Transfer

- ☐ Train relevant personnel on system operation and maintenance due Nov 9, 2023  
Priority: High
- ☐ Knowledge Transfer due Nov 9, 2023  
Priority: Medium

☐ Prepare technical documentation, including system architecture and software manuals

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Priority: High

due Nov 1, 2023

☐ Documentation

Priority: Medium

due Nov 1, 2023

## Phase 6: Project Conclusion and Reporting

☐ Complete project documentation and formalize project closure

Priority: High

due Nov 16, 2023

☐ Project Closure

Priority: Medium

due Nov 16, 2023

☐ Collect feedback and assess project success

Priority: High

due Nov 16, 2023

☐ Present project outcomes to stakeholders

Priority: High

due Nov 11, 2023

☐ Presentation and Evaluation

Priority: Medium

due Nov 16, 2023