Gantt Chart

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Phase 1: Project Initiation and Learning

☐ 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

☐ 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   due Nov 1, 2023
  Priority: High

- [ ] Documentation   due Nov 1, 2023
  Priority: Medium

Phase 6: Project Conclusion and Reporting

☐ Complete project documentation and formalize project closure   due Nov 16, 2023

    Priority: High

☐ Project Closure   due Nov 16, 2023

    Priority: Medium