Phase	Task	Description	# Start Weel	k # End We	ek 🕝 Status	Notes								
Planning & Research	Define Requirements	Finalize hardware & features		1	2 In Progress	Requirements document								
Planning & Research	Order Components	Purchase electronic and mechanical parts		1	2 Not Started									
Planning & Research	Set Up Development Environment	Install Raspberry Pi OS libraries and 3D modeling t	c	1	2 Not Started									
Mechanical Design & Prototyping	Chassis Design & Fabrication	Design and 3D print a modular chassis		3	6 Not Started									
Mechanical Design & Prototyping	Motor Integration	Mount and test motors with L298N driver		3	6 Not Started									
Electronics & Sensor Integration	Power System Setup	Integrate LiPo battery & voltage regulators		7	10 Not Started									
Electronics & Sensor Integration	Sensor Integration	Implement IR proximity line tracking IMU and light		7	10 Not Started									
lectronics & Sensor Integration	User Feedback Components	Program OLED display LEDs buzzer and buttons		7	10 Not Started									
Software & Wireless Communication					14 Not Started									
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Software & Wireless Communication	Basic Control App				14 Not Started									
					18 Not Started									
					18 Not Started									
Testing & Optimization	Full System Testing	Test real-world use cases and optimize movement		19	22 Not Started									
Testing & Optimization	Performance Improvements	Enhance battery efficiency and response time		19	22 Not Started									
Testing & Optimization	Final Documentation	Create guides diagrams and educational exercises		19	22 Not Started									
Final Adjustments & Deployment	Final Iterations	Apply refinements based on user feedback		23	24 Not Started									
Final Adjustments & Deployment	Demo & Release	Prepare presentation demo and next steps		23	24 Not Started									