



HASAN KALYONCU UNIVERSITY

Electrical-Electronics Engineering Department

EEE 499 Project Proposal Form

Part I. Project Proposer

Name Last name		E-mail	
		Date	

Part II. Project Information

Title of the Project	Voice Controlled Robot based on a Microcontroller				
Maximum Cost of implementation (TL)	5500	Conceptual Design Dead Line	in 5 weeks	Prototype Production Deadline	in 13 weeks
Standards and licenses to be used in the project. example; IP65, IEEE, APACHE, MIT, etc.	MIT License, GNU General Public License (GPL)				
Project Description					
The major goal of the project is to operate the robotic vehicle in a desired position using user voice instructions. The project aims to help the wheelchair users.					
Project Justification					
Novelty : Controlling voice of robotic system using Bluetooth for real-time					
New aspects	The integration of voice-controlled via Bluetooth for real-time robot navigation				
Complexity					
Challenging problem and issues	Ensuring precise and reliable real-time communication and control between the Bluetooth module in varying environments.				
Related electrical-electronics science fields and subfields	Embedded Systems, Robotics, Communication				
Tools	Raspery Pi or Arduino UNO - 1x, L293D motor driver - 1x, Servo motor (MG995) - 1x, DC gear motor - 4x ,HC-05 Bluetooth module- 1x ,Ultrasonic distance sensor - 1x,Mini breadboard - 1x, Chassis - 1x, 3.7v LiPo battery - 2x, Rubber wheels-4x				
Risk involved					
Potential problems and alternative solutions					
Minimum work required	10 WEEKS WITH 2 DEVELOPERS				