



HASAN KALYONCU UNIVERSITY

Electrical-Electronics Engineering Department

EEE 499 Project Proposal Form

Part I. Project Proposer

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Part II. Project Information

Title of the Project	Ultrasonic anemometer				
Maximum Cost of implementation (TL)	5000	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.	IEEE				
Project Description					
In this project, wind speed and direction will be measured by using ultrasonic transducers. The system will also include a micro controller to process the data. Results should be transmitted wirelessly and displayed on a computer or phone screen. https://en.wikipedia.org/wiki/Anemometer#Ultrasonic_anemometers					
Project Justification					
Novelty					
New aspects	Writing of software to determine wind speed and direction is a completely new.				
Complexity					
Challenging problem and issues	Writing software				
Related electrical-electronics science fields and subfields	Electronics, signal processing, microprocessor				
Tools	Ultrasound transducers, microprocessor and custom software. Documents and some materials will be provided by lecturer.				
Risk involved					
Potential problems and alternative solutions	The equations used to calculate the speed and direction of wind and correctly converting them in to suitable software code. A signal coming from the classical wind measurement device can be used to justify the display software.				
Minimum work required	20 hours per week for 14 weeks with three (2) developers.				