



# HASAN KALYONCU UNIVERSITY

## Electrical-Electronics Engineering Department

### EE 499 Project Proposal Form

#### Part I. Project Proposer

Name Last name		E-mail	
		Date	

#### Part II. Project Information

Title of the Project	Development of the mobile data logger that can measure temperature, humidity and global position.				
Maximum Cost of implementation (TL)	3200 TL	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.	IP65 -Water proof (IP65)				

#### Project Description

The aim of project is measure temperature, humidity and global position of sensor and save that measured data to SD card at periodically. Device power supply and charge unit should be included in device.

1. Design electronic hardware according to schema that shown figure 1.
2. develop a code to read sensor data and write sensor data to SD card.
3. The text format that created in SD card should be a format that shown format1.

Format1: <Data\_no><Time><Temperature>< humidity><GPS data>

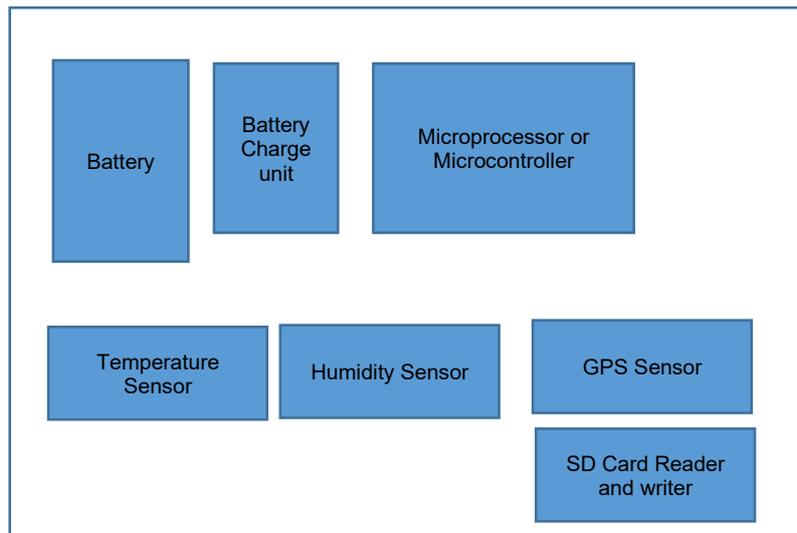


Figure 1

<b>Project Justification</b>	
<b>Novelty</b>	
<b>New aspects</b>	Work to find new aspect to decrease data lost between nodes.
<b>Complexity</b>	
<b>Challenging problem and issues</b>	Communication between two node, detect data package lost.
<b>Related electrical-electronics science fields and subfields</b>	Communication Techniques, Sensors
<b>Tools</b>	ATMEL or PIC or ARM or any microcontroller, microprocessor, AVR C or any Embedded programming Editor. Proteus ARES, Eagle, Temperature sensor GPS sensor
<b>Risk involved</b>	
<b>Potential problems and alternative solutions</b>	
<b>Minimum work required</b>	9 WEEKS WITH 2 DEVELOPERS