Electrical and Computer Engineering Capstone Project Proposal

Version 2.0

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**Erebus Labs**

**Open Sensor Platform**

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# Abstract

# Introduction

## Background

## Problem Description

## Previous Attempts

## Existing Products

# Project Statement

Our goal is to design and prototype an open-source hardware/software solution for collecting data from sensors that is both inexpensive and accessible to non-technical users. This solution will consist of the main device, a web application for programming the device, and a number of peripheral sensors. We will consider the project a success if we can procure the programming application, at least 5 working main boards, 4 working sensor boards (2 of each connection type), and demonstrate successful system integration by May 6, 2015.

# Methodology

## Hardware

### Main board

### Sensor Boards

## Firmware

## Software

### Configuration

#### System Configuration

#### Sensors Configuration

### Programming

## Support

# Schedule

# Budget

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version #** | **Revision Date** | **Author** | **Comments** |
| 1.1 | 1/14/2015 | Golriz Sedaghat | Changes were made in Detailed Problem Description and Methodology, also figure 1 has been modified and figures 2 and 3 has been added |
| 2.0 | 2/27 | Colten Nye | Restructured and updated entire document |
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