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Embedded Programming Project

Ventilation System

Helsinki Metropolia University of Applied Sciences

Bachelor Degree

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# Introduction

Ventilation system is one of the most important things in big building. Its duty is to maintain the ideal atmosphere by controlling air temperature and humidity as administration settings. As a project of our second year, we have to control a ventilation system located in Metropolia (Espoo Campus) by LPCXpresso 1549 with Modbus.

This project, as schedule, will take approximately 2 months to complete and delivery to the customer.

# General description

## Controlling system

This place is for description about controlling

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Figure 1. Virtual studies completed by Metropolia students in the academic year 2009-2010.

There must always be text between a figure or table and a new heading.

## Sensor

### Pressure Sensor

Add information about pressure sensor

Figure 2. Pressure sensor

Table 1. Pressure Sensor specification

|  |  |
| --- | --- |
| Field of study | Studies completed, ECTS |
| Culture | 131 |
| Technology, Communication and Transport | 552 |
| Health Care and Social Services | 175 |
| Business and Administration | 52 |
| Not bound to a field of study | 18 |
| Metropolia total | 928 |

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## User Interface

### LED Screen

Figure 3. LED Screen

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### Button

Figure 4. Button

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## Implementation

Figure 5. Implementation Picture

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# Principle architecture

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# Instruction

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# References

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