

UNIVERSITY OF SOUTHAMPTON

COMP2323

# Computer Systems II Logbook

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# Chapter 1

## Introduction

### 1.1 Task Outline

The goal was to toggle an LED using direct register access. I chose a polling architecture for simplicity, though this blocks the CPU.

### 1.2 Implementation

Below is some example code that demonstrates how to embed C code in LaTeX using the listings package.

```
1 // src/week-01/example.c
2 #include <stdio.h>
3
4 int main(void) {
5     // Placeholder for Task 1
6     return 0;
7 }
```

Listing 1.1: LED Driver Code

### 1.3 Reflections

Direct memory access is faster but riskier than using an abstraction layer. In the future, I would wrap this in a macro to improve readability.