



L-Università ta' Malta
Faculty of Information &
Communication Technology

CPS3233 Assignment Report

Manwel Bugeja

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1 Elevator System Specification

In this section, the specifications of the elevator system are expressed in several different formal notations. The notations are Finite State Automata (FSAs), Regular Expressions (RE), Timed Automata (TAs) and Duration Calculus (DC). From the ones listed, TAs and DC are the capable of expressing timed events.

1.1 Finite State Automata

1.2 Regular Expressions

1.3 Timed Automata

1.4 Duration Calculus

2 Runtime Verification

3 Model-Based Testing

4 Runtime Verification and Testing

References