- 1 Introduction
- 2 Breakdown
 - 2.1 Power Supply
 - 2.2 Temperature Sensor
 - 2.3 Microprocessor
 - 2.4 User Input
 - 2.5 Hot Plate Controls
- 3 Details
 - 3.1 Hardware
 - 3.1.1 Power Supply
 - 3.1.2 Bridge Rectifier and Linear Regulator
 - 3.1.3 Buck Converters
 - 3.1.4 Triac
 - 3.1.5 Temperature Sensor
 - 3.1.6 User I/O
 - 3.2 Software
 - 3.2.1 PID Controller
- 4 Results
 - 4.1 Power Supply
 - 4.2 Temperature Sensor
 - 4.3 Triac Current Control
- 5 Conclusion

Appendices

- A Project Contract
- **B** Schematics
- B.1 Power Supply
- B.2 Temperature Sensor
- B.3 Controller
- C Parts List
- D Datasheets
- D.1 AtMega