Appendix A: ALU I VHDL

Appendix B: ALU II VHDL

Appendix C: ALU I Test Bench

Appendix D: ALU I Test Bench Results

Appendix E: ALU II Test Bench

Appendix F: ALU II Test Bench Results

Appendix G: ALU I Synthesis

Appendix H: ALU II Synthesis

Appendix I: Serial Binary Multiplier

Appendix J: Serial Binary Multiplier Test Bench

Appendix K: Serial Binary Multiplier Results

Appendix L: Serial Binary Multiplier Synthesis

Appendix M: Simple Computer VHDL

Appendix N: Simple Computer Test Bench

Appendix O: Simple Computer Test Bench Results

Appendix P: Simple Computer Synthesis

Appendix Q: Basic Computer VHDL

Appendix R: Basic Computer Test Bench #1

Appendix S: Basic Computer Test Bench #1 Results

Appendix T: Basic Computer Test Bench #2

Appendix U: Basic Computer Test Bench #2 Results

Appendix V: Basic Computer Assembler in C++