Massachusetts Institute of Technology Department of Electrical Engineering and Computer Science 6.111 - Introductory Digital Systems Laboratory

Final Project Check Off Sheet

Project Title: Fingerprint Identification Student Names: Kevin Amendt, David Friend TA Name: Theodoros Konstantakopoulos TA Signature/Date: Design	
Pre-I	<u>mplementation</u>
	Possession of a Fingerprint Scanner (David) Prove fingerprint matching algorithm (David) Find center, take horizontal/vertical slices, FT those slices and compare
Funct	<u>ionality</u>
	Support circuitry for scanner IC (Kevin) FPGA/Labkit interface from user I/O pins to scanner using a Serial or Parallel connection (Kevin) Memory interface: For storing FFT representation of fingerprint image (Kevin) FSM to convert image from 8 bit/pixel to 1 bit/pixel (Kevin & David) Control module to interface with memory, pattern matching module, and scanner interface (David & Kevin) Pattern matching module (David & Kevin) Visual Output (Kevin)
Post I	<u>mplementation</u>
	Integrate with real world application (doorlock?) (David & Kevin)