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Student Name: Caleb Markley

E-Mail cablay@ufl.edu

TAs: Andy Gray Josh Weaver Nick Cox

Instructors: Dr. A. Antonio Arroyo Dr. Eric M. Schwartz

University of Florida
Department of Electrical and Computer Engineering EEL 4665/5666
Intelligent Machines Design Laboratory

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This week I finished my platform and systems connections. Once this was finished I was able to run some preliminary tests. I was able to play notes in patterns based on the color detected by my camera and the IR sensor input and I was also able to play notes corresponding to keys played on the MIDI keyboard. Next I plan to implement a basic Markov chain-based algorithm to be able to start creating algorithmically generated melodies.