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ECE 4564, Assignment 1

Section 1 – Objectives

Assignment 1 aimed to use Python network programming to have two Raspberry Pi’s communicate with each other through sockets. The first Raspberry Pi (RPi 1) was to act as a client that takes in a user’s Tweets and parses it accordingly. The parsed Tweets, which contained instructions, were processed and sent to RPi 2, the server side, to control an LED. The format of the Tweet is as follows:

*@UserAcc #ECE4564\_IPByte1\_IPByte2\_IPByte3\_IP Byte4\_PortNo\_GPIOinstruction*

The GPIO instruction portion could be one of three things: *LEDON*, *LEDOFF*, and *LEDFLASH*.

Twython, an open-source API, was used to accomplish the task.

Section 2 – Team member responsibilities

**Christina**

**Nathaniel**

Section 3 – Conclusions