GSoC Phase I : First Half

Project : AXIOM Remote - Bootloader

improvement and extension



Priya Pandya

Outline

Phase I

Tasks Task1

Task2

Plans for upcoming weeks



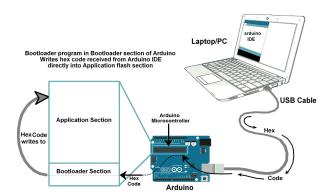
Phase I

Tasks

► Task1: Flashing of firmware on PIC16s using PIC32

► Task2: PIC32 self-programming







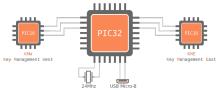
Host PC

A python script will be used on the host PC (skeleton is ready)

- ► The features are:
 - ► It uses pySerial module
 - Command line arguments for operation, to select chip, to select UART port, to select HEX file
 - ▶ It communicates with the Bootloader using an ASCII based protocol









- ▶ It replicates the functionality of a PICKit to communicate with the PIC16s (or KMs)
- ► It has all the ICSP commands defined there and simple read and write methods



- ► To flash the firmware with UI in the PIC32
- ▶ Same python script and the protocol to communicate with the BL will be used



- ► This week:
 - ▶ Create commands to read the data from Bootloader
- ▶ If above successful then develop for write also

