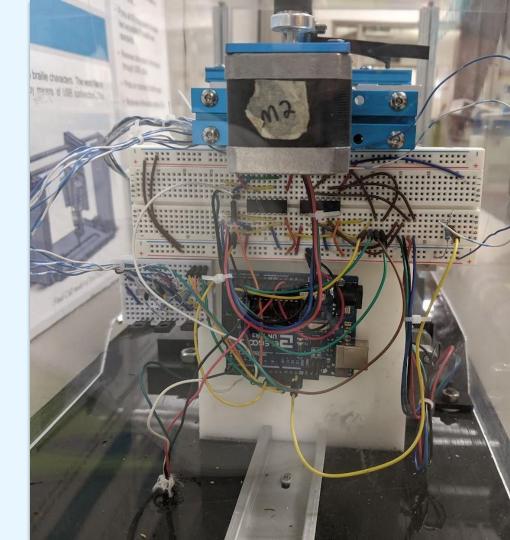


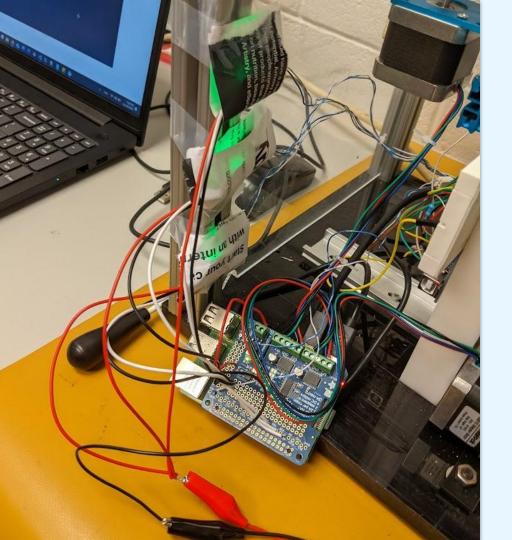
Kenny Howes, Emma Wang, Ebun Aluko

Advisors: Derek Schuurman, Chris Sorensen

where we started

- Semi-working machinery
 - Slippage
 - Inaccurate motors
 - Too-slow arduino
 - etc. etc.
- No TCP/IP stack
- No user interface

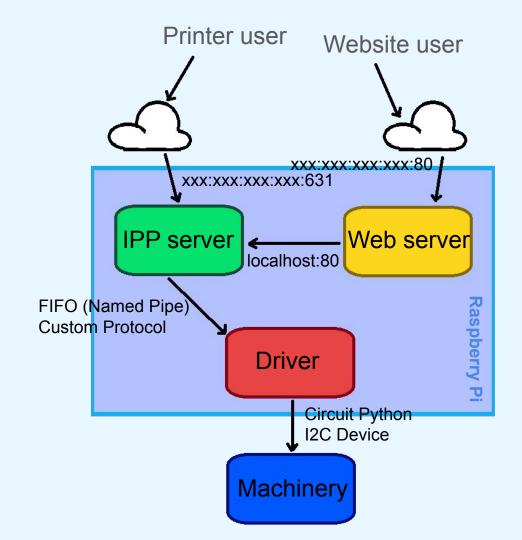


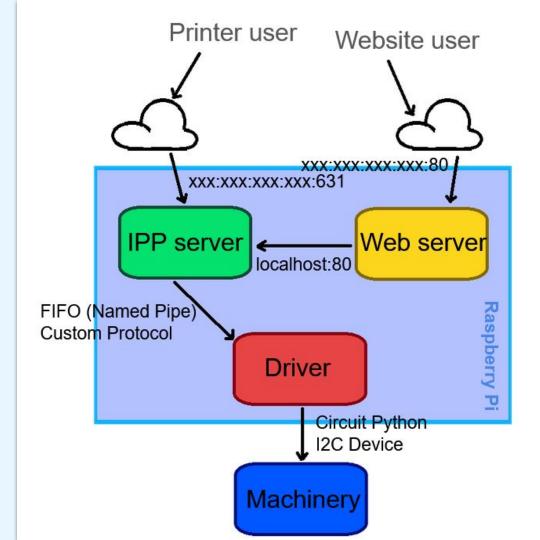


what we've done

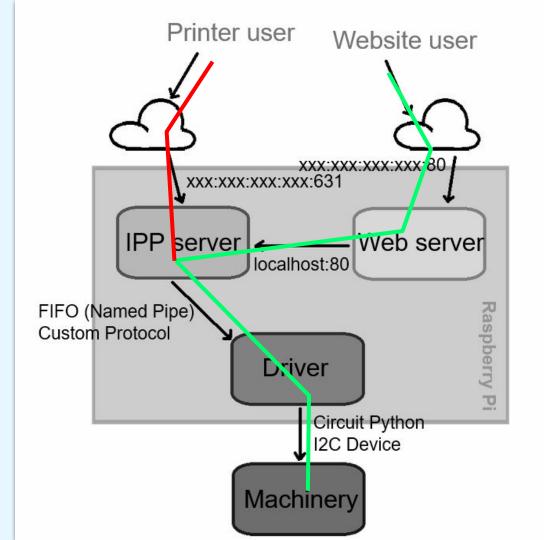
- Replace parts
 - add Raspberry Pi w/ Raspbian OS
- Write driver for running machinery
 - print head movement (<0.3% error)
 - slow down steppers
- Add software interfaces
 - IPP server/printer
 - Flask website

demo





- IPP server
 - advertise on the net
 - grab print job data
- Develop IPP to driver protocol
- Fix machinery stuttering
 - Look into writing C library
- Enhance website, add document support



caring

made to help the those who need braille

transparency

interfaces usable by any web/printer user

stewardship

pi hat to handle efficiently using electricity



questions?