

The Brainiacs: Claire Beineke, Charles Meadows, Gage Farmer, Hassan Hassan, Jun Xie, Zach Schultz

Smart Plug: Progress Report 5

Reporting Period: 2/18/2025 - 2/24/2025

Date of Submission: 2/24/2025

Team Member	Progress	Plan	Schedule
Claire Beineke	Ordered a new filament and made a plan to use the 3-D printing lab in Bolz Hall. Made the PowerPoint for the timeline update presentation.	Present the updated timeline and make sure the new components fit the case of the smart plug.	O
Charles Meadows	Remaining components ordered. Started individual device testing.	Test new components for operational functionality. Assemble circuit. Conduct low level testing of architecture blocks	O
Gage Farmer	Flexed my fabrication prowess. Created something that will never pass regulation.	Assemble first hardware prototype from ordered electronics. Begin testing at some point.	O
Hassan Hassan	Looked for vendor that can 3-D print using heat resistant filament starting with Micro Center but we may switch to an on-campus printer	Ensure we receive our parts and add a transistor to the orders list after realizing we need it. Finalize the detailed schematic.	O
Jun Xie	Completed the selection of communication protocol for the Python API to interact with the microcontroller.	Set up the microcontroller as its own server by coding, allowing Python to access it over Wi-Fi.	O
Zach Schultz	Created test cases and began testing the functionality of Wi-Fi connect, disconnect, and error handling	Design front end GUI to provide basic QOL metrics to let the user know that they are connecting, connected. Also make scheduling feature in GUI	O

Issues/Actions: Filament from Amazon was out of stock, so a new selection had to be made. Was able to find a filament that met the requirements and was cheaper than the original selection.