

DesignNews

Scratch Building Raspberry Pi RP2040 IoT Devices

Day 1:

Building an RP2040/WizFi360 Wi-Fi IoT Node

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Webinar Logistics

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Fred Eady

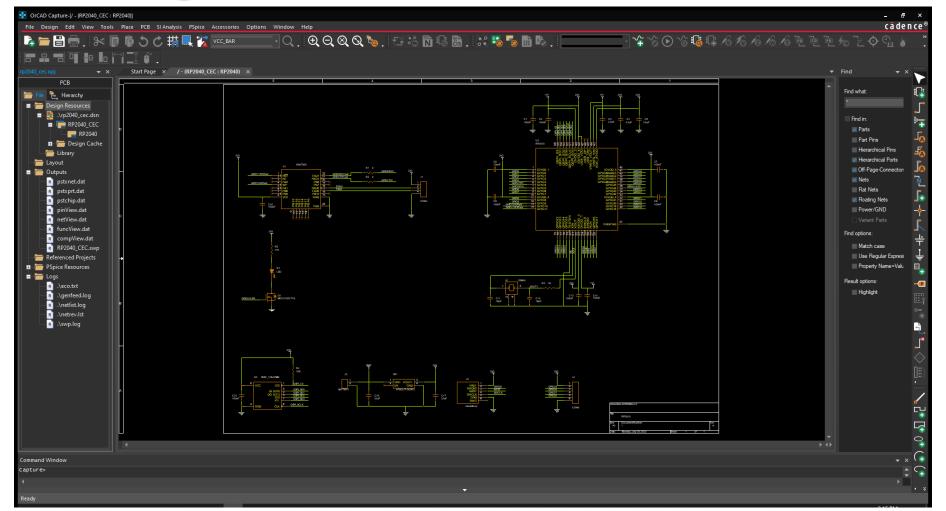
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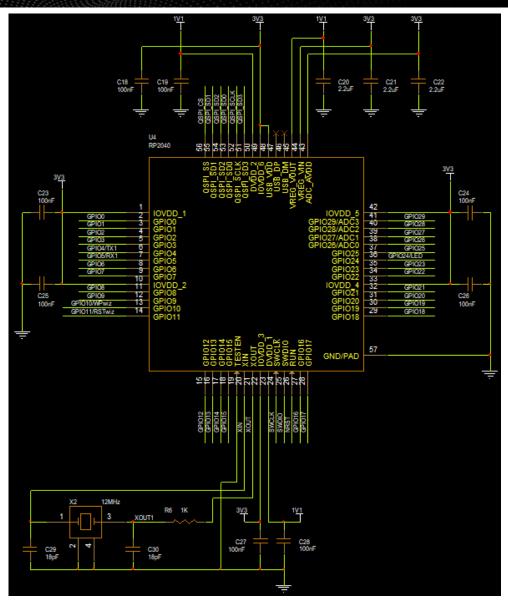
AGENDA

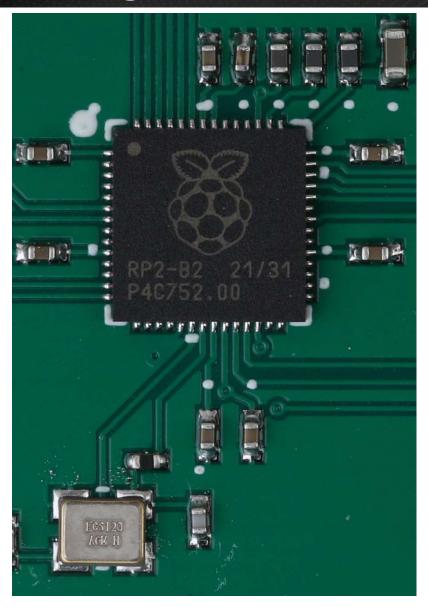
- Designing Custom RP2040 Hardware
- Scratch Building Custom RP2040 Hardware



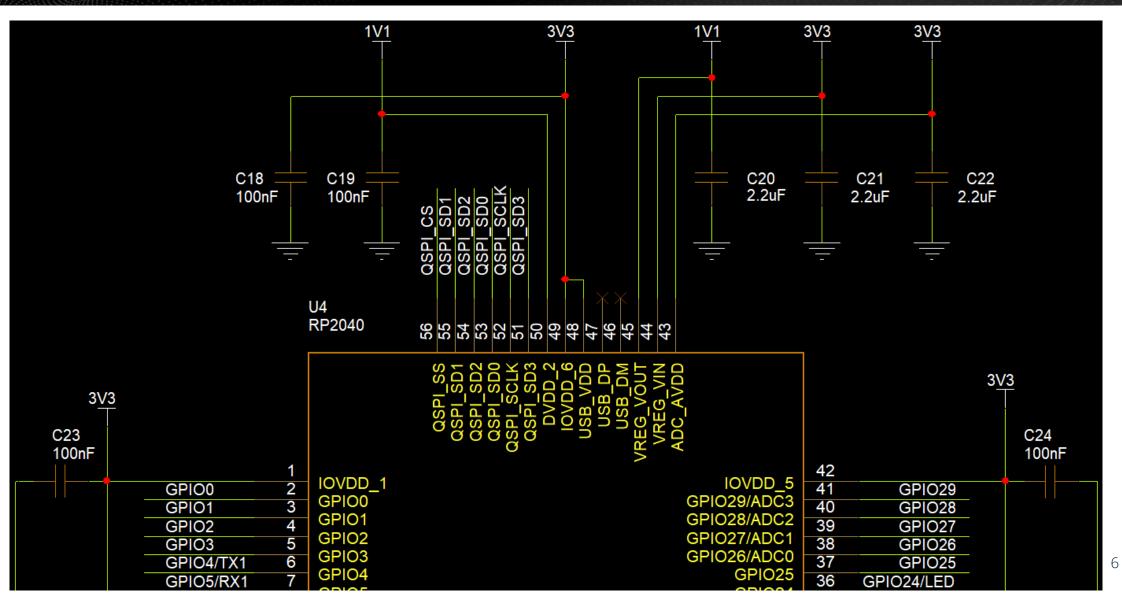






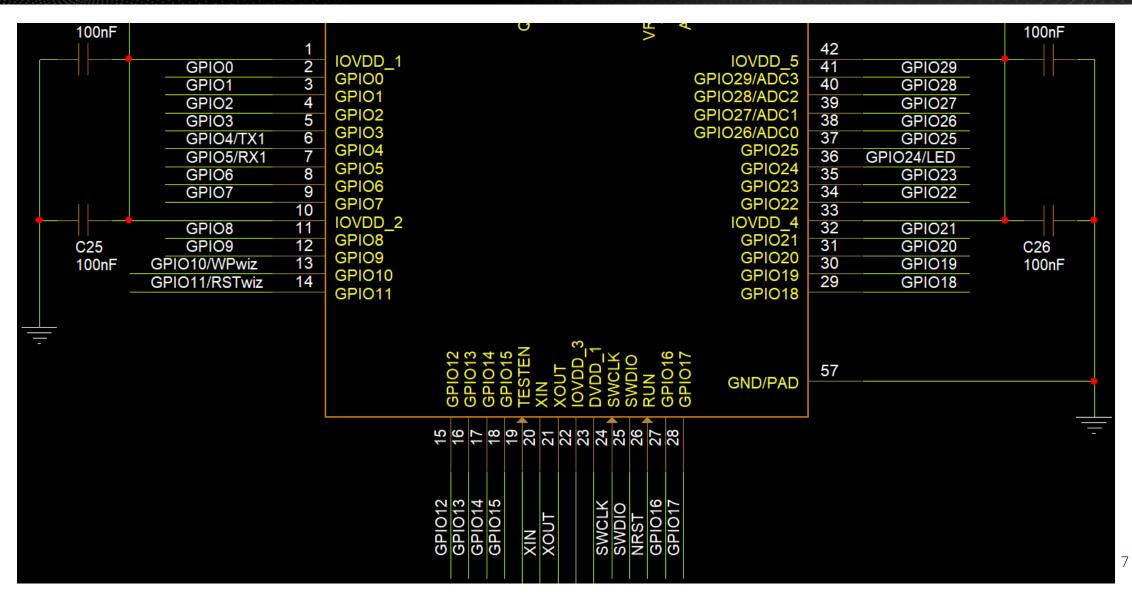






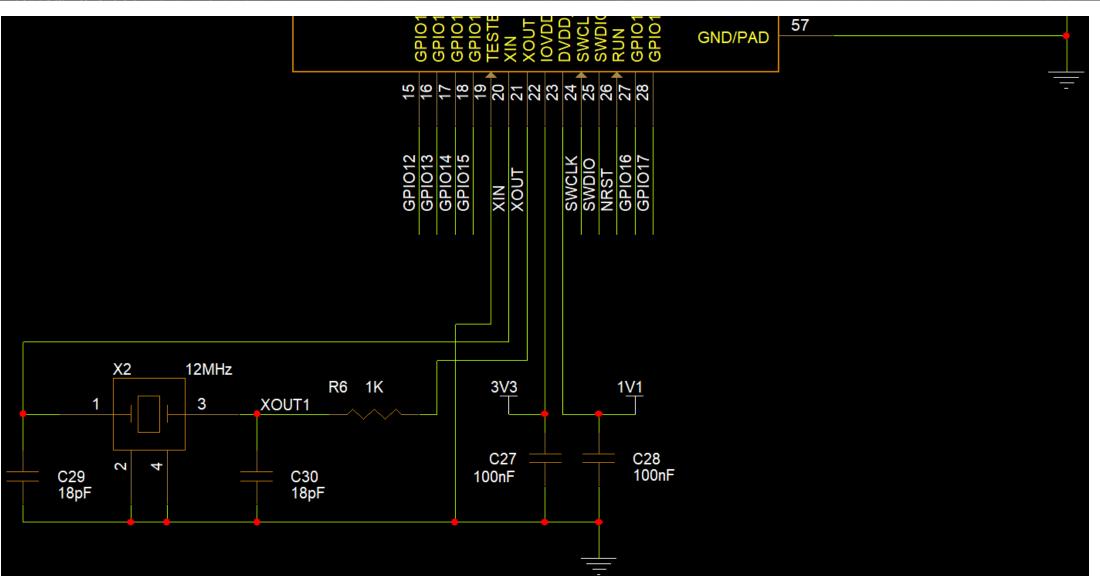






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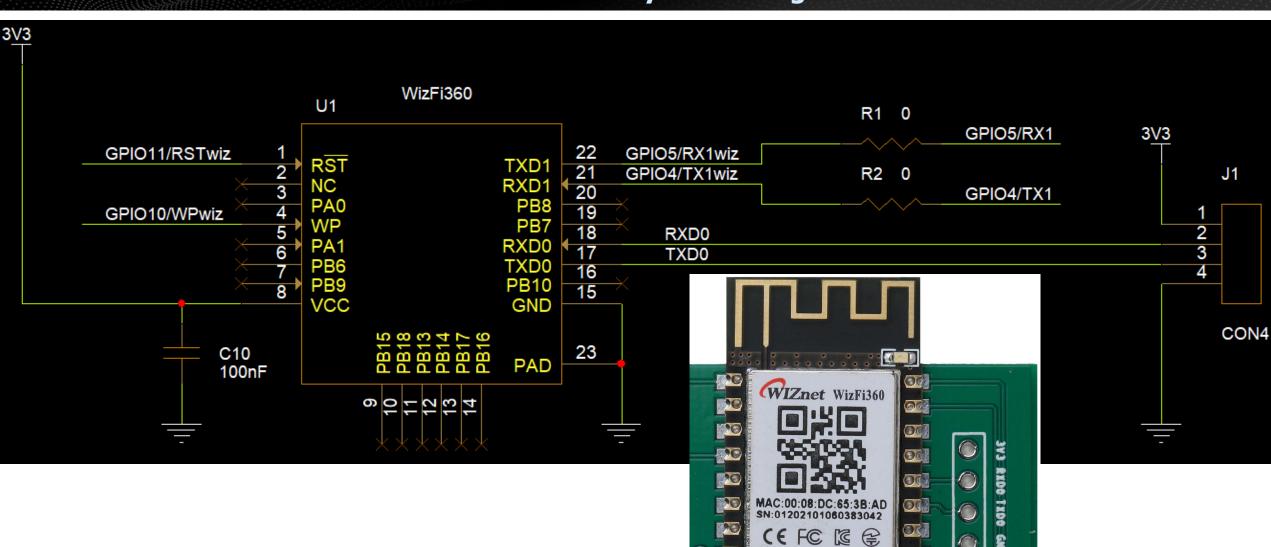


Scratch Building Raspberry Pi RP2040 IoT Devices Building an RP2040/WizFi360 Wi-Fi IoT Node

Designing Custom RP2040 Hardware



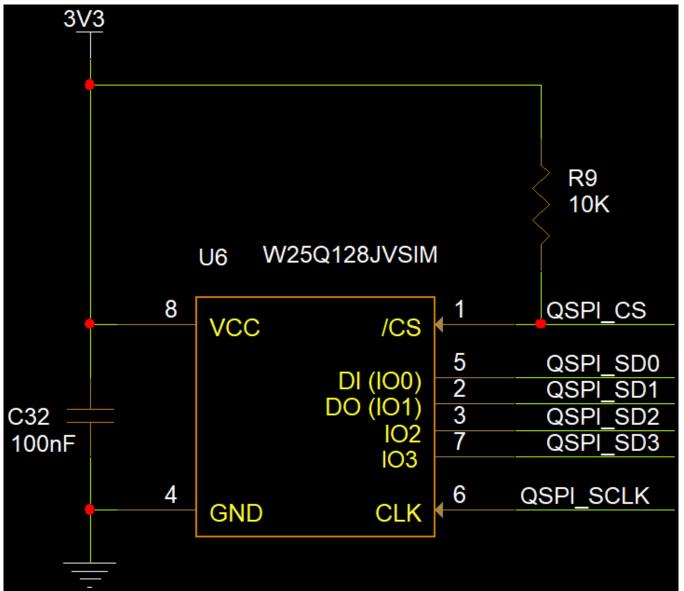
WizFi360 Subsystem Design

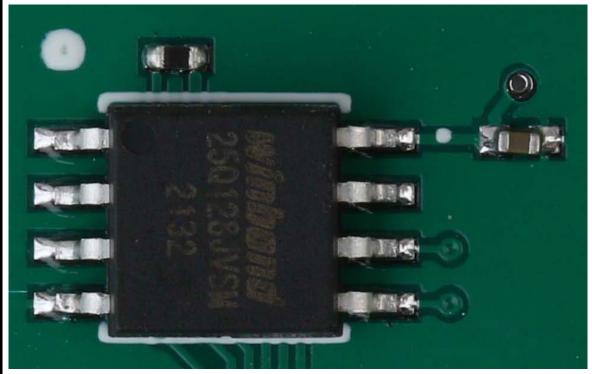






QSPI Flash Subsystem Design



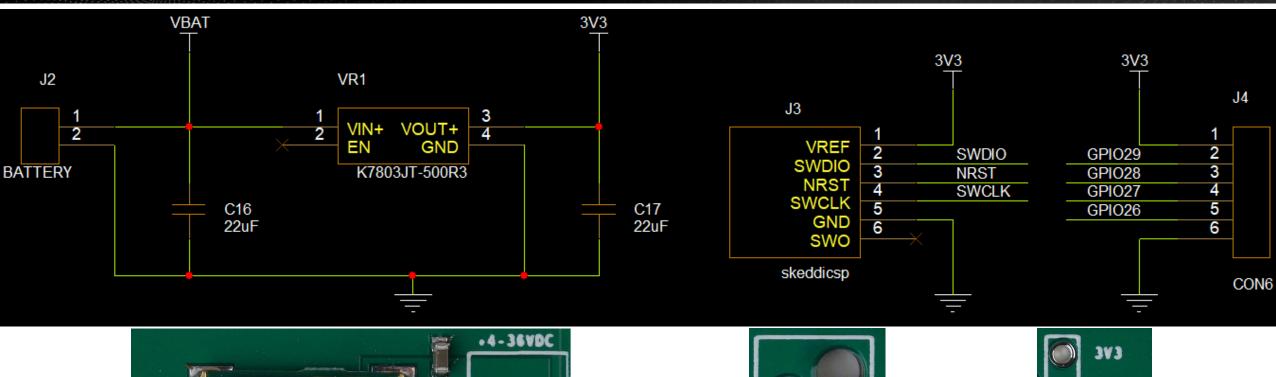


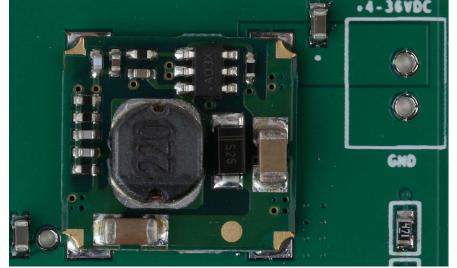






Power-ICSP-I/O Subsystem Design





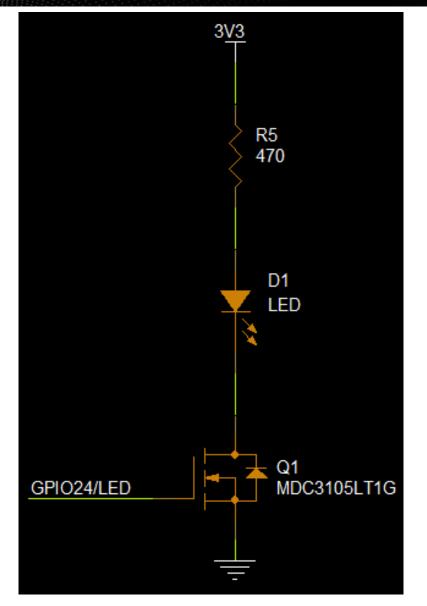








Power-ICSP-I/O Subsystem Design



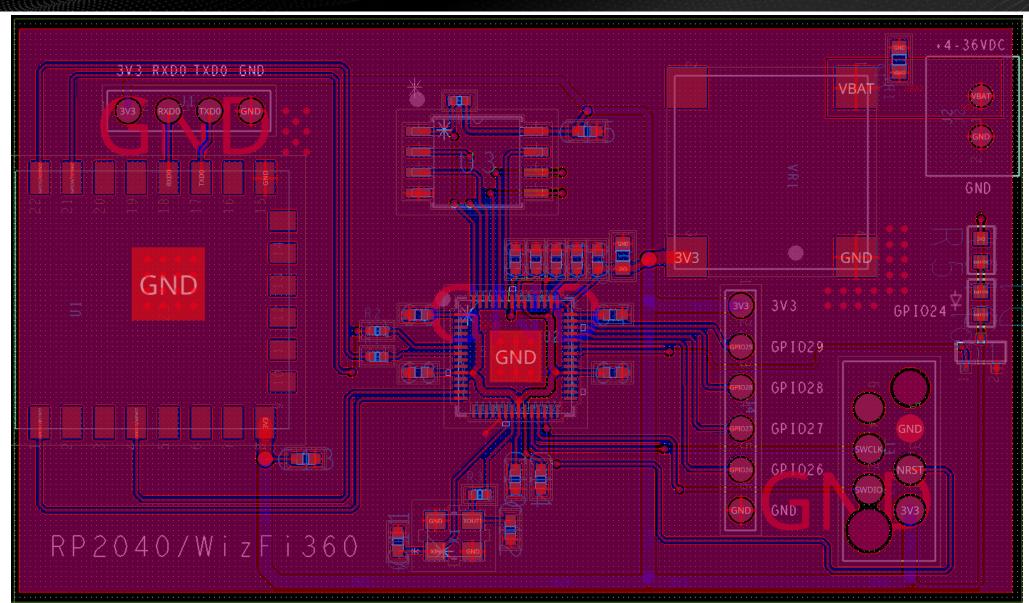








Generate the Gerbers







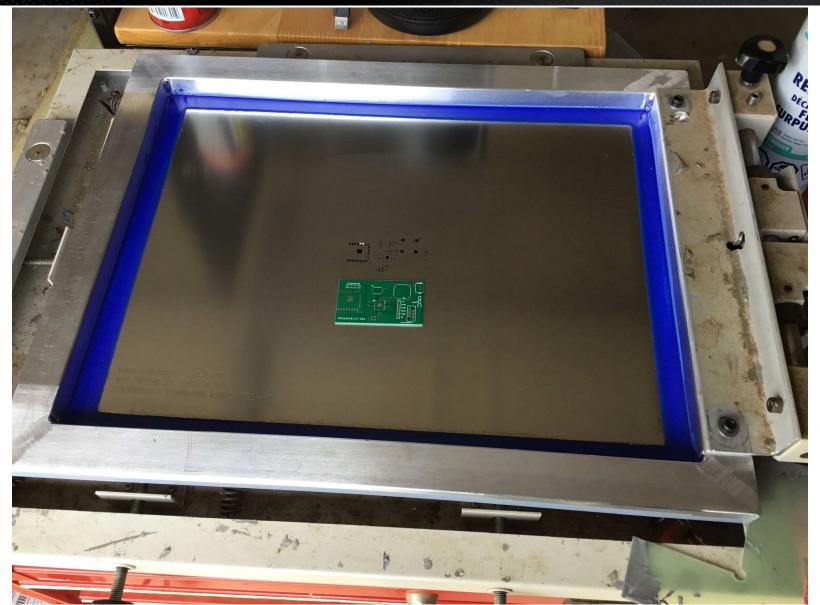
PCB Assembly



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PCB Assembly – Stencil Setup

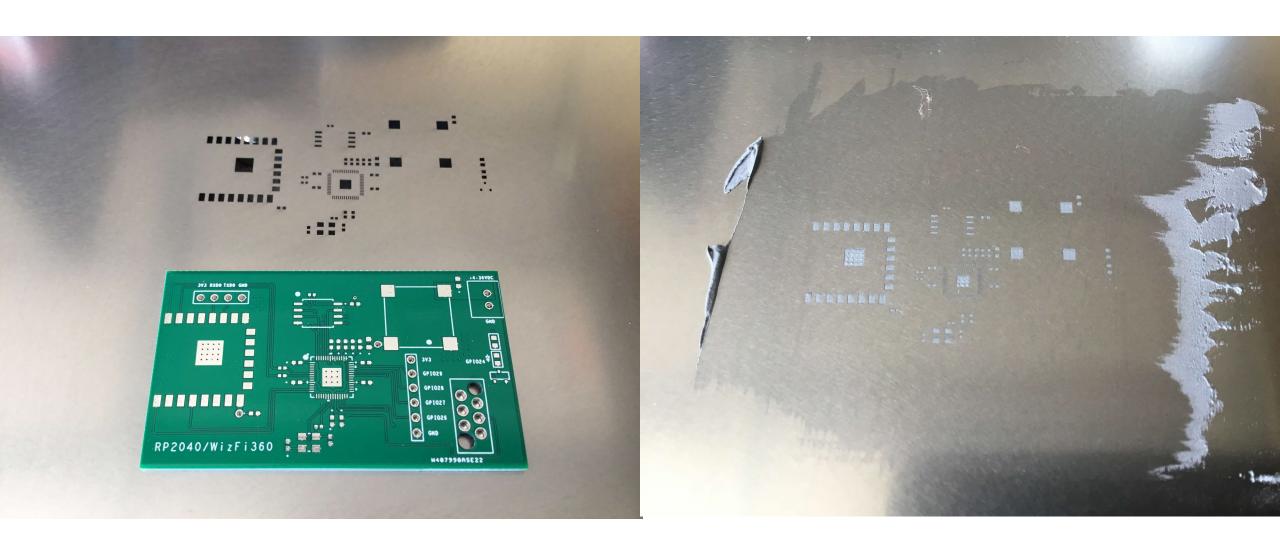




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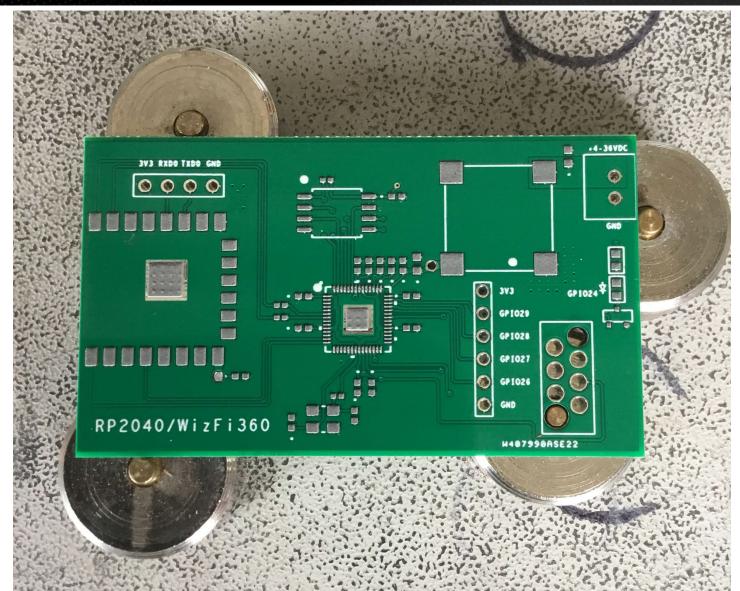
PCB Assembly – Solder Paste Application







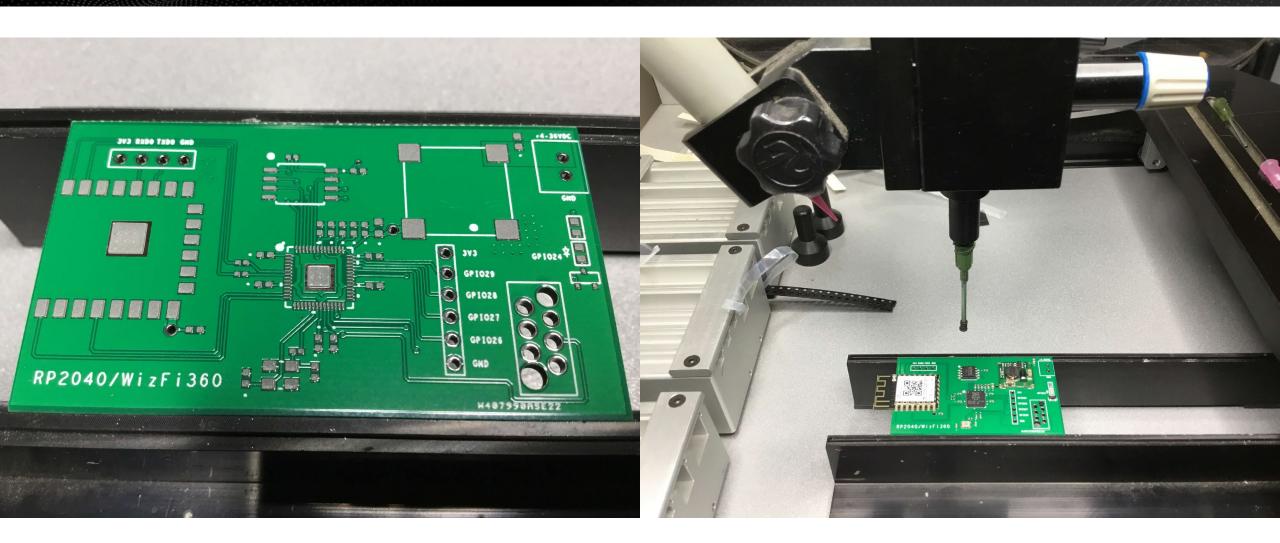
PCB Assembly – Solder Paste Application







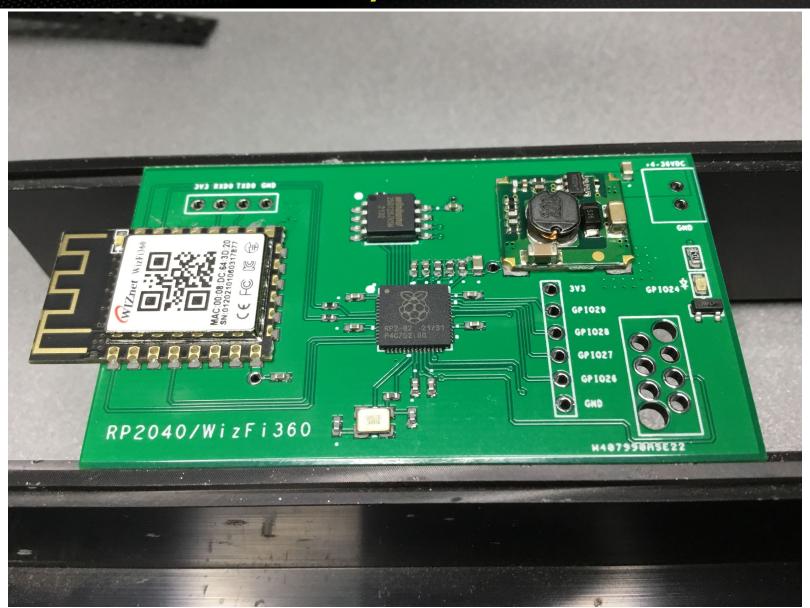
PCB Assembly – Place the Parts







PCB Assembly – Place the Parts



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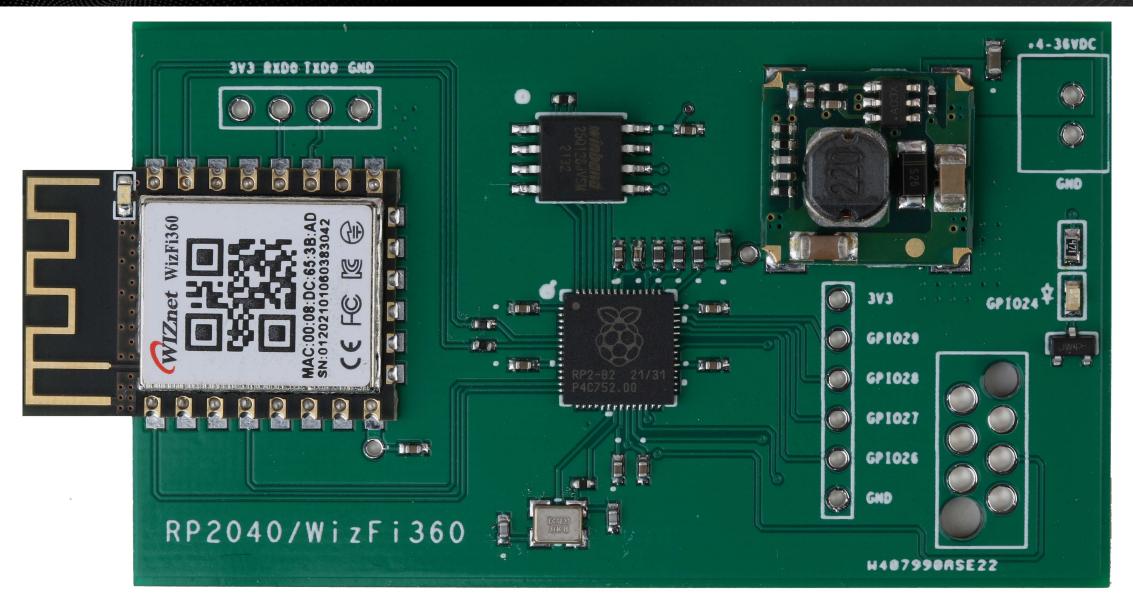


PCB Assembly – Solder the Components





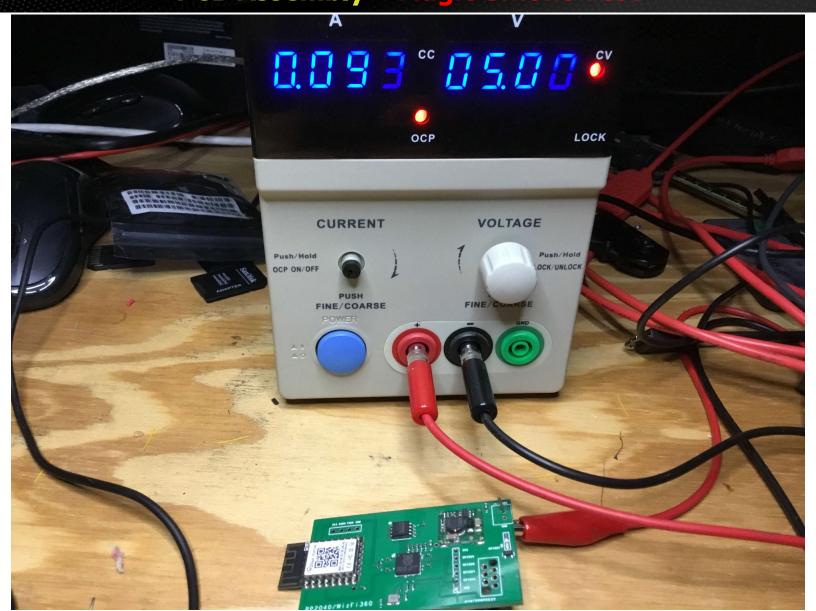
PCB Assembly – Assembled Board



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PCB Assembly – Magic Smoke Test

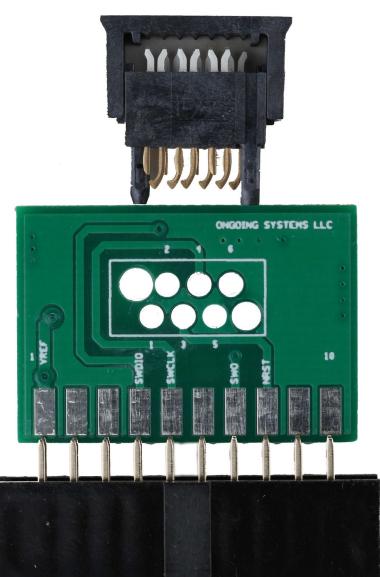








PCB Assembly – Programmer/Debugger Interface







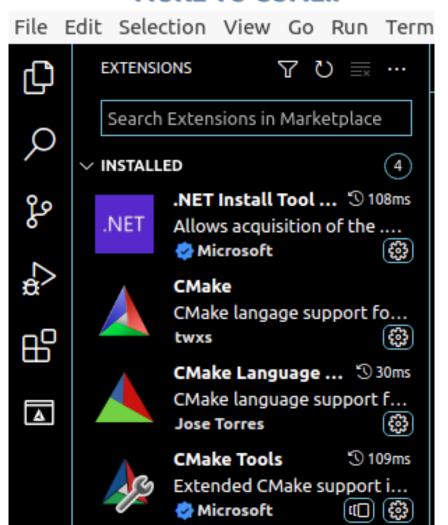


Thank you for attending!!!

Please consider the resources below:

- raspberrypi.org
- RP2040 Datasheet
- Hardware Design with RP2040

MORE TO COME...





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Thank You

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