Learning Module #2

Soldering

Ian Behn & Dustyn McAuley

Write Up
Ian & Dustyn

- This learning module was focused on soldering so that was the only topic covered other than safety.
- Since this learning module only covered a single topic there wasn't that much to explore and learn. But Ian and Dustyn still walked away with some things like firstly how to solder, and how to be safe when soldering. They also learned a little about the different types of solder like leaded solder and lead free solder, and the differences between them.
- There weren't many problems during the learning module. Soldering is pretty straight forward even for beginners. The main things that became issues were things that needed to become muscle memory while soldering. Things like being able to easily get a good solder joint and not have to try multiple times. The instructions for the practice soldering were also not super clear so they struggled to figure out what they needed to do during the practice. They also struggled with some of the components in the second soldering kit because not only did they not have great instructions, they also didn't know the best ways to put some of the non soldering components in. There were also a few occasions of putting the components in the wrong spot and having to take them out and put them where they belong.
- They don't have many suggestions since it is fairly straightforward. One thing they would suggest is to follow the instructions closely since it can be annoying if you mess up. Another suggestion would be to use the other solder removers that are in the room since the ones in the kit don't work super well. Another suggestion is to make sure you know what a good solder connection looks like.

Learning Module #2 Log
Ian & Dustyn

Day #1
September 11th & 12th, 2025
Ian and Dustyn Present

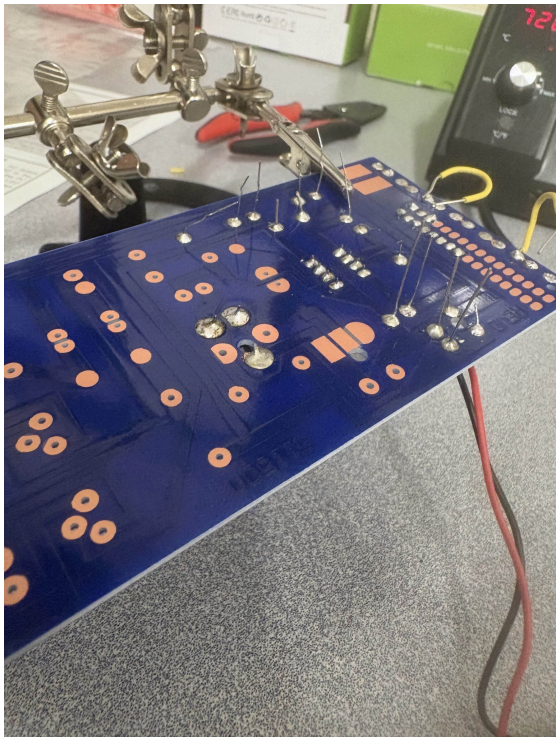
- Ian and Dustyn looked at the safety material for soldering. But they mainly looked at what was in the kit to get familiar with what they will be doing.

Day #2
September 15th, 2025
Ian and Dustyn

- On day 3 Ian and Dustyn started practice soldering. They got through all the practice solders and started soldering in the components from the kit. Ian was showing Dustyn how to do each of the types of practice and then letting Dustyn try as much as he needed to be comfortable with it.

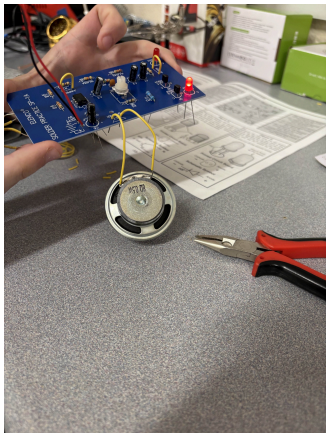
Day #3
September 16th, 2025
Ian and Dustyn

- On day 4 Ian and Dustyn spent the block soldering in the components. Dustyn did most of the soldering because he doesn't have as much experience while Ian was telling him where the components went. Ian also gave advice on how to get good soldering joints on specific components. Ian also soldered some of the components as an example



Day #4
September 17, 2025
Ian and Dustyn

- On day 5 Ian and Dustyn finished the speaker soldering kit by the end of the period. The soldering was split mostly 50/50 because Dustyn now had enough experience to confidently solder.

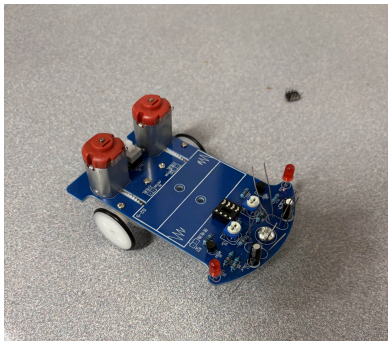


Day #5
September 18, 2025
Ian and Dustyn

- Since Ian and Dustyn finished the first soldering kit on the previous day, they started working on a car soldering kit. They had to spend a few minutes figuring out where some of the parts went because it wasn't all soldering but once they figured it out it went pretty smoothly.

Day #6
September 19th, 2025
Ian and Dustyn

- Since Ian and Dustyn figured out the non-soldering parts of the car on the previous day, today was spent entirely soldering. They got very far into it since they both were experienced now but did not solder the last few components like the battery.



Resource Page

Instructables - How to Solder with pictures
Makerspace - Learn to Solder with guide
Soldering tutorial for beginners - 5 easy step
Beginner how to solder