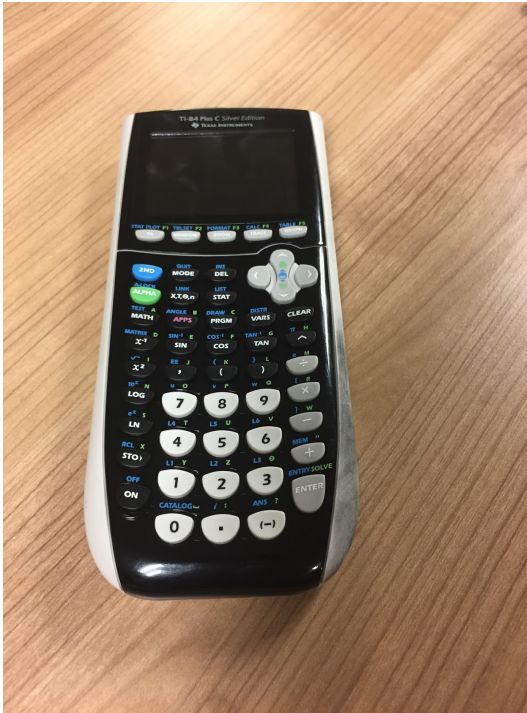


9364 Texas Instruments Online Challenge

For the 2017 Texas Instruments online challenge, team 9364 has chosen a TI-84 calculator. We have chosen this because it is something we use every day in school and wanted to know what the inside looked like.



The Calculator we Disassembled

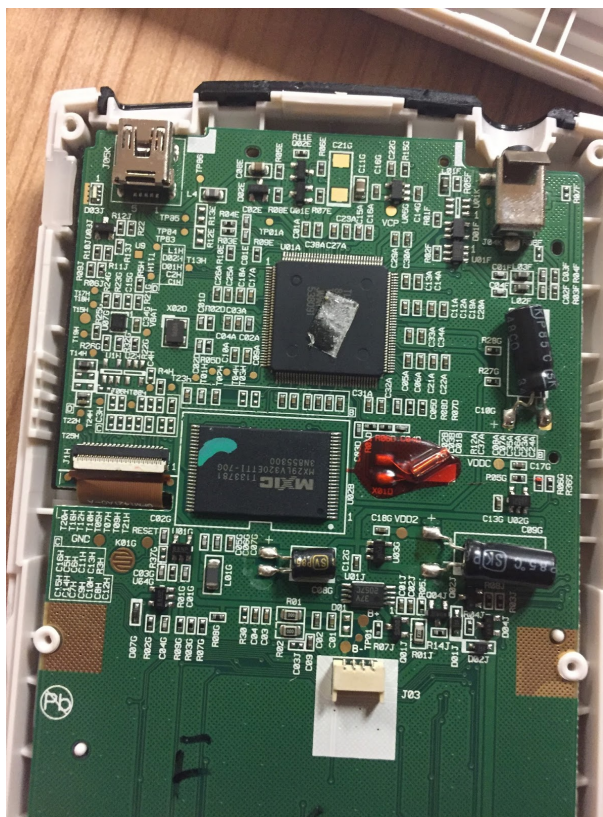


Rechargeable Battery

The first thing we did was remove the rechargeable battery. Then we removed the back to find an aluminum sheet of insulation covering the circuit board. We found many more components than we expected. The ones labeled “Cxxx” are capacitors, and the ones labeled “Rxxx” are resistors. The large, square chip in the middle of the board is the microprocessor, or the chip that executes the processes of the calculator. The rectangular chip labeled “MXIC” is a 32 megabit flash memory. In completing this challenge we learned about the many intricacies of what we considered a simple device, and we learned about several electrical components and their function that we did not know previously.



Aluminum Insulation



Close-Up of Circuit Board