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Why do you think it is important for an engineer to follow the basic steps in problem solving?

I think it is important for engineers to follow basic steps in problem solving because it is a good practice. How can someone tackle something very complicated if they can't even perform the most basic steps? Engineers need to have a foundation to be able to tackle more complex tasks because without that foundation they could miss the most basic fixes that could solve the problem entirely. Let us say that a customer's computer keeps shutting down randomly, and most people would think that it might be the PSU. If you skip the most basic steps, like checking if any of the connections are loose, if the RAM is seated properly, and many more BASIC steps, you could possibly miss a quick and easy fix. It is important to make that firm and strong foundation of the basics because it is the most basic thing you could do that only takes you a couple of seconds; there is no hurt in trying because you aren't doing anything complicated yet that could possibly cost you hours of your time. In conclusion, mastering and consistently applying the basic steps in problem solving is not just a good practice; it’s essential for effective engineering. So whether you're troubleshooting a complex system or helping a customer with a faulty computer, beginning with the basics is the smartest, most efficient way to work, especially as an engineer.

Honor Pledge:
"I affirm that I will not give or receive any unauthorized help on this activity/exam and that all work will be my own."