

Computer Science Connections

Computer science is heavily involved in my career choice. I plan to own a business that manufactures telecommunications equipment, such as routers, phone systems, wireless telecommunications equipment, etc. Computer science is involved in every aspect of my business. CAD drafting software is required to help design circuits, enclosures, and industrial control system schematics. IDEs are used to write the code for the software and firmwares that power the equipment we manufacture. Not to mention simulation software such as LTspice, that allows us to prototype circuits before they hit the development stage in the R&D department, saving large sums of money.

Computer science is not just involved in the manufacturing and design of our equipment, it is the heart of it. Our equipment is what makes computer science. To develop this equipment it requires a vast understanding of data systems, microprocessors and microcontrollers, and complicated electrical knowledge. All of which are important fundamentals of the computer science field. Computer science ties together all aspects of my career choice.

Not only is it used for the design and the science behind the equipment, it is also used in the business administration part of the career. Softwares used for managing payroll, taxes, and other financial duties are all part of the computer science ecosystem. It is also used to capture and analyze data about our equipment, customers, etc. to help grow the business. All of which are important to owning a successful business. In conclusion, computer science is the heat and the blood of my career choice.