Car Software Engineer



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Introduction



Have you ever looked at a car and wondered if I could control it using a mobile phone? Car software can do just about that. A Car Software Engineers can use the engineering design process to do lots of mobile things like, remotely unlocking the vehicle, viewing the vehicle's location, remotely starting the engine, and remotely controlling the temperature. All while using a mobile phone or other devices like iPad or computer. The car software engineer from Munich Software Group is what we are doing our report on. We interviewed Luson Ding.

Why we chose this profession

Do you know why we chose this profession? Well, the reason why we chose Car software engineer is because we had a teammate that knew a car software engineer first-hand. That's his uncle. Another reason we chose the Car software engineer. One of the last reasons we chose car software engineering is because they can program pretty well and we need to program in robotics. And also uses professional tools such as the https://www.jetbrains.com/ where you use there app and create a personal program with little fees.



How we found our resources

We found our resources by asking our teammates to ask people they knew if they had a job that uses the engineering design process, and we found one of our teammates' uncle is a software engineer! Our professional person uses the (EDP) by setting the workflow. They will follow the EDP to complete the things in each step. After doing what should be done on the current thing, the next step will be carried out, and then other people will continue this step which I think is testing.

How this profession uses the EDP

The way our car software engineer applies the EDP in his company's work, first, the company does a survey to find a problem they want to solve. The company has to see if they have over a certain number of people who think that it is a good idea.

Next, they start to hire some people to program to create an app to solve a problem. The company has to buy a car to test out the program, after they test it out, and if it works they send it to the public to let them use. If not, they go and revise the error and retry until they finish.

A website a car software engineer might use is <u>https://code.visualstudio.com/</u>. They use this website to correct and debug the code so it works like it is supposed to.



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How this profession approaches the EDP

The way our profession approaches the EDP is pretty different from the way we do it because the company asks the question and a car software engineer starts at Explore and Plan by starting to hire some people to program.

In robotics we do all the steps ourselves. We start with stating the Problem before exploring and planning. The way we plan is by making a decision matrix, testing to see if it meets all of our criteria that we made in Ask to identify the problem.

To create the car software engineers create a code to use. For our create it's basically the same thing except were building but if it's programming we would probably get pictures of the code and document about them.

The next step a software engineer uses is Create to create a program. Then they Test their work.

Car Software Engineer	Our Robotics Team
Ask Done by the company	Ask-The way we use the EDP is by first Identifying the problem which would be finding the constraints and making goals.
Explore	Explore-you need to find 3 solutions from, online, past designs, or designs from past competitions, then you would write the pros and cons of the 3 solutions.
Plan	Plan- First you would write down the 3 solutions, then you would write down the 3 goals for the decision matrix and make a table. The table should have 3 things, 3 solutions, 1 if you think it would work or 0 if you don't think it will work, and your 3 goals. Whichever solution passes all three 1s you need to write an analysis. You can then draw a side view, top view, and front view.

Car Software Engineer	Our Robotics Team
Create	Create - Then you can move on to step 4. Create. In Create you will have to document everything you build and any minor changes.
Test Done by another company like JetBrains, Visual Studio Coding	Test For step five Try it out you will need to use the last of the six criterias to test your solution. If your solution meets with all the criteria it might not work 100% but it will work. If your solution ends up not working and doesn't meet any of the criteria you will go to step 6.

Ask Step 1, the company does a survey to find a problem they want to solve. company has to see if they have over a certain number of people who think that it is a good idea.

Car software Engineer's EDP

Explore Step 2 the car software engineer thinks and researches ways to solve the problem.

Test And a company has to buy a car to test out, after they test it out, and if it works they send it to the public to let them use. If not they go and revise the error and trial and retry until they finish which is step 5. Plan Step 3 they start to hire some people to program.

Create

Step 4 The programmers create the code which can be challenging. And a company has to buy a car to test out, after they test it out, and if it works they send it to the public to let them use. Step 1: Stating the problem with at least 2 pictures. Then we would state 6 goals to use for Plan and Test.

Our EDP

Explore Step 2: Finding possible solutions, online, past designs or from latest tournaments. Then we state our sources.

Test And a company has to buy a car to test out, after they test it out, and if it works they send it to the public to let them use. if not they go and revise the error and trial and retry until they finish which is step 5.

Step 3 for us is stating our goals from Ask and picking just 3 goals to make a table with. Create

Step 4 The programmers create the code which can be challenging. And a company has to buy a car to test out, after they test it out, and if it works they send it to the public to let them use.

How robotics prepares 10142X for a job

Do you know how robotics helps us? Well, it helps us a lot, if we did not do robotics we would not get too much time to work with other people and we would not get the opportunity to cooperate and respect others ideas. Robotics is a good way to get prepared for a job because robotics does not only teach cooperation, respectfulness, and teamwork it also teaches responsibility and self-direction, which at a job you will need all of these qualities so unlike someone who maybe does not do robotics they will have to adjust but, people who did robotics will have a head start.

This is Team 10142Xs Career Readiness about a how a Car Software Engineer uses the EDP.

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