Transcript

So I am following the iBook, "App Development with Swift" and I am on lesson six, which is functions. And I'm currently building a program that makes a repetitive song about a topic of your choice. I actually chose the song, "I'll tell you What I Want" by Spice Girls and I'm just making a function based off of that song.

So this is my first year really kind of getting into programming. So Swift has been one of my very first programming languages. And definitely being able to kind of explore Swift in comparison to some of the other languages, there are things that I really like about it. And some of the kind of nice ways that it's taught me to learn Swift and the ways that it shows me visually how to do things. The book itself that goes through and teaches you about it, the developers book is really helpful and really straightforward on how it works and with the playgrounds, and the playground lessons, and I really like that and I love that there is a very specific and direct kind of result to what you're doing. There's so many other programs languages where you have to either go through and type out the entire thing, finally, hit run and then see if it works. And if it doesn't, you have to try to figure out what went wrong and where. But Swift is so straightforward with being able to see, oh, here's exactly where it goes. Which is so helpful, especially from someone who needs to see those things. I want to be able to control that and be able to see little things and details. So it really helps with my mind specifically. And it's been super great. And we're slowly looking forward to it, and slowly learning more and more about it. And it's been really awesome kind of journey, working through it slowly. And then also, as a part of the Society of Women Engineers, we've been working with Swift, with a long term goal and a project we were working on for a year, if you want to talk more about that.

Yeah, so we've been trying to interface between an Apple app and a robot and using Swift, it's nice because they have their whole core Bluetooth library that is accessible to anybody. And so it's really easy to be able to connect different platforms using Swift. It's been nice, then we're really excited to kind of keep on doing what we're doing and working with our robots and seeing the results and seeing the progress. And it's been really cool for all of us as a team to work up in groups where some of us are working on Swift and some of us are building and it really makes a great collaborative group and a cohesive group so that we're all able to learn and work together.

Okay, so what do we like about Swift is the storyboard. so your storyboard will tell you exactly what the user interface will look like, while you program. You can see here, so tap our controller, and here's the navigation bar controller. And here's a

table view. So each of those scenes help you manage your app. So you won't have to program everything by yourself which not only save times and also makes it easier because we know exactly how it will look like on the app itself. We can also drag in things such as labels and buttons to help us easier code the program because we don't need to program each individual button, we can just drag in the premade buttons and connect to them to our code.

All right, this year, we worked on our capstone project, the second semester was full of learning new things. And one of those things being Swift This year, we're using Swift to program an app to send a message through Bluetooth to a board which will direct people to the right buses. As you can see, we have the app loading up right now. And it is possible and we have already tested it so it is possible to send Bluetooth messages one way through the Arduino. We like using Swift because it's easy to use and very easy to implement and upload onto the phone without using the app store. And then when we releas when we release it on the App Store, it will be available for the Principal and the APs.