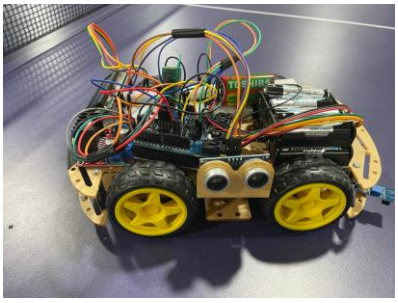
1. **Line tracing RF (Radio Frequency) car**	
Where and When:	Seoul National University, During my 1 year 2nd semester
Start-end date:	Project starting date: 2023.11 Project ending date: 2023.12
Description of the project:	The project was making an RF car that traces black lines on the ground and follows a route. The objective of the project was to assemble multiple sensors including RF line tracer, ultrasound sensor and LCD display and build the RF car. After building the car, the aim was to successfully trace route and execute specific missions. The missions included making turns and detecting objects distance by using the ultrasound sensor.
The role I played:	With a team of three people, I worked on both software and hardware ends.
Precise description of what I did:	The project included assembling different parts of an RF car that uses an RF line tracker to trace black lines for self-drive. Along with two of my teammates, I helped to assemble these components into a car. The car also needed coding to help control the different sensors to function together. For that reason, I mainly did the coding. The RF car used an uno-Arduino board that supports c++ like programming. I wrote codes for the sensors to function and execute the objectives of the project. I also

	helped fix the bugs we encountered at run time.  *Figure 1. The RF line tracing car*
Lessons learnt:	Overall, our project worked fine, but due to unstable hardware issues we had some unexpected behavior arose at the execution time which we responded to by examining the hardware again that allowed us to continue execution the project till the end. The project deepened my teamwork skill set. There were times I couldn't solve issues by myself. Then, my teammates gave me a supporting hand, and we managed to finish the project in the given time. The project also taught me discipline at one's work. While executing some of the functions, there were times we had to work late hours. In addition, near the deadline, things were not working as we expected, and we had to stay late at night working at the laboratory in our department trying to fix bugs in the code and make our car work properly.

	Personally, the project served me to build friendship with my teammates who I reach out to these days too. *Figure 2. My teammates and I*