Self Assessment

AR Maps is going to be augmented reality maps made for iPhone. It will combine real world imagery and overlay a virtual map to allow users to easily get from place to place. The application will also be able to overlay any information the maps provide over the corresponding buildings when pointing the phone camera at them. This application will give us an opportunity to learn Apples ARkit, how to generate graphics for an augmented experience, give us ample experience with the future of the user interface, mixed/augmented reality. Not to mention all the different languages and implementations of open source API's that will need to work harmoniously together to get this project working. Academically this project will take everything I have learned in both the traditional school setting and while on co-op and challenge me to combine those two things to create this application.

Through my classes at UC and Wright State the greatest skill I have learned is how to teach myself a new programming language. This will be helpful as I do have Swift experience from co-op. However, they just updated the language with some new syntax and usages for strings. CS 5167 UI, will help in this project for the design experience it is giving me with user interfaces. CS 4003 Program Languages, will help since it encapsulated so many different languages and I learned a lot about how similar languages are allowing me to apply those similarities in other languages that I may need to implement in this project. Eng 4092, Technical Writing taught me many technical things such as how to document information and some non-technical things such as how to give a successful presentation.

While I was at Diebold as a Software engineering co-op some non-technical things I learned included Agile methodology and how to manage projects and time efficiently. This will help me to be able to put together a timeline of tasks that will need to be completed in the order that needs to happen so that other features can be implemented on the project. While at Diebold some of the technical things that could help with the project would be my experience implementing open source API's. This will help since for this project many different API's will need to be implemented and harmoniously work together to attain our vision for the app. At Trayak I was co-oping as an iOS Developer, I learned a lot about designing UI and UX for mobile platforms as well as becoming very proficient in the Swift language. Both will be invaluable for the project as it is going to be built for iOS.

This project is very exciting to me as I am very interested in a career of creating iOS apps. This project is allowing me to make another app. In this project, we will be using the new AR-kit that will be the backbone of many successful apps in the future. Especially as Apple and other companies keep pushing the boundaries of the augmented reality field. I love working with new technology and being able to work through hiccups in the software so this will be an exciting experience for me. Expected results are that the application will work as intended, it will be able to guide a user from one location to another in augmented reality. As well as overlay information about objects (buildings, roads, etc.) that the camera sees as the app is running.

The biggest accomplishment we can have is that the app will successfully guide a user from one location to another using augmented reality to draw the path. I have no doubt that we will run into development issues as this is brand new technology. However, I believe we will

be able to work past these issues. I plan on evaluating our application on whether it can guide a user from one location to another in augmented reality or how closely it can get. The application will be done once it can guide someone using augmented reality, overlay information on objects (buildings, roads, etc.) and be user friendly. I think it will be obvious if we have done a good job or not, it should be user friendly and be able to carry out the tasks it was designed to do.