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**GitHub repository:** <https://github.com/Mrottura23/Mrottura23.github.io>

**Website Link:** <https://mrottura23.github.io/>

## **Intro into info tech - Assignment 1**

### **Personal Information**

Hello! My name is Matthew Rottura and welcome to my profile!

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\*Insert Picture\*

I am an 18 year old fresh out of high school student that enjoys gaming and a vast array of other interests such as Formula 1, go karting and AFL. I am a very passionate Ferrari and Melbourne supporter and look forward to the upcoming season of both Formula 1 and AFL. Living with me at home are my two favourite pets in the world, one being a budgie whose name is Jet who is 5 years old and the toy cavoodle whose name is Ruby. Both get along really well, although I fear one might eat the other, but they are both very curious in each other's personality.

### **Interest in IT**

What is your interest in IT? When did your interest in IT start?

During my early years of highschool, I began to think about what really interest me and how I could relate that to my further studies after highschool. As a casual gamer at the time, I started to notice that I was really interested in computers and networks, this interest started with the casual Linus Tech Tips videos on how to build a computer which led to myself specing, building and set up the required network for my very own gaming rig. In addition to this at home interest, my highschool also provided a Software development class during VCE which I performed very well in and topped the class in most assessments which further enhanced my interest in IT. Finally, after sharing a memorable experience of building a PC with my father and uncle, I still continue to learn about a vast array of useful tools and tricks that I can use to further excel my knowledge in information technology, from professionals in their respective fields being program management and network administration.

Was there a particular person that sparked your interest? Outline your IT experience.

My father and Uncle who are work in Program management and network administration, respectfully, both sparked my interest into IT as they both have innovative and sophisticated home IT systems that I am very keen to learn about. Both brothers love to boast about who has the fastest download speeds or have the best home network setup and I have been able to learn about each individual setups and apply the knowledge that I have learned into my own local area network. I was offered a fantastic opportunity in year 10 as part of work experience, to attend the head office of Bunnings for the week and get an understanding of the IT systems they use to manage and share data across all their systems. I not only observed what sort of work being done but I also helped setting up devices for different team members in other departments of the company. By getting a

hands-on experience into what it is like to not only setup ones system but to also connect it to the overall network was really intriguing and a great learning opportunity.

Why did you choose to come to RMIT?

I chose to study at RMIT because it is close to the city as I am very with the where abouts of the different services that not only RMIT provides but that of the City. Furthermore, RMIT provides a very flexible studying timetable with being able to tailor your studying schedule to how every it best suits a certain individual, in my situation I can come into the city for a few of my classes on one day and complete the remaining classes online from the comfort of my own home. Additionally, my uncle who is heavily involved within the IT industry also attended RMIT post his highschool studies and highly accredited the possibilities that arise from studying here.

What do you expect to learn during your studies?

After graduating RMIT with my Bachelor of Information Technology, I expect to be equipped with the tools to tackle industry grade problems either that be following down my ideal path of networking or if I decide to try cybersecurity within business or further development my small hobby of programming into a key attribute which I can use to development innovative and life changing technologies. On top of these industry specific skills, I also hope to be greatly equipped with keys skills such as working efficiently within a team and the motivation and determination to complete individual specific tasks.

## **Ideal Job**

### **Description - Duties**

This job as an IT system administrator is appealing to me as it is centrally focused on a network of users all interconnected, I will be I involved in duties such as handling and troubleshooting errors with staff connected over the network. Part of this process will be classifying level of impact and running diagnostics and other documenting problem tools to help identify and resolve the issue. Furthermore, other duties will include monitoring performance and security within the network and upgrading the systems with new models as well as training staff of how to be cyber-smart and using newer technologies. The benefits of a job like this are being able to work from home and tackling problems independently as well as within a team. Additionally, I will be able to help others to when they encounter an issue.

### **Description – Skills**

Some skills required as part of this job is working with the Microsoft 365 system. I will also need to have experience in using advanced trouble shooting tools such as; Wireshark, Procmon, Fiddler. Remote access and user management will also be a major part in this role as some staff members might not know how to solve IT over the phone so by remotely accessing their device, I would be able to resolve issues. Furthermore, the industry certifications outline on the job description will also be required in order to prove that I have the skills equipped to tackle any problem that I encounter while working.

### **Description – Skills I currently have**

Although not many, I have used Microsoft 365 have some experience in troubleshooting simple issues with my own devices. I also have experience in maintaining software and hardware issues, and what issues can arise if these are not maintained properly. Furthermore, I enjoy to communicate with staff and team members so effective communication wont be an issue for me.

### How to obtain required skills

Most of the skills required for this particular job will most likely be covered in this course, with the consideration that I will pick networking in years 2 and 3 of my course. Obtaining the industry relevant certificates will also be a requirement for this job and to increase my chances and skill set, I should also gain some experience with their desired application which include; iManage Work Web, Aderant, WordPress, BigHand.

### Personality Tests

Myers-Briggs Test Result:

Personality type: [Protagonist \(ENFJ-A\)](#)

Traits: Extraverted – 66%, Intuitive – 55%, Feeling – 53%, Judging – 57%, Assertive – 64%

Role: Diplomat

Strategy: People Mastery

Learning style test:

## What's Your Learning Style? The Results

Matthew Rottura's scores:

- Auditory: 35%
- Visual: 40%
- Tactile: 25%

You are a **Visual** learner! Check out the information below, or [view all of the learning styles](#).

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### Visual

If you are a visual learner, you learn by reading or seeing pictures. You understand and remember things by sight. You can picture what you are learning in your head, and you learn best by using methods that are primarily visual. You like to see what you are learning.

As a visual learner, you are usually neat and clean. You often close your eyes to visualize or remember something, and you will find something to watch if you become bored. You may have difficulty with spoken directions and may be easily distracted by sounds. You are attracted to color and to spoken language (like stories) that is rich in imagery.

Here are some things that visual learners like you can do to learn better:

- Sit near the front of the classroom. (It won't mean you're the teacher's pet!)
- Have your eyesight checked on a regular basis.
- Use flashcards to learn new words.
- Try to visualize things that you hear or things that are read to you.
- Write down key words, ideas, or instructions.
- Draw pictures to help explain new concepts and then explain the pictures.
- Color code things.
- Avoid distractions during study times.

Interactive Leadership Style Assessment (USC):

Front-line Leader

You know how to be genuine and present during interpersonal interactions. You have the emotional intelligence to feel empathy and you know how to express it. Your authenticity means you are generous and share yourself with others. Storytelling is one of your strengths; it is how you connect with people and engage them in a shared vision. Perhaps your biggest gift is the ability to empower the people around you to achieve their best.

What do the results of these tests mean for you?

I believe that the results provided by these personality tests are a good indicator to the type of character I am. Majority of the qualities listed I would agree that I have, those attributes include being joyful and accepting yet also assertive when the situation calls for it. Although these indicators are a sharp representation of my personality, I do believe that some aspects of these test are a bit distant. For example, in the Myer-Briggs test, it has been concluded that I am 57% Judging, where I would disagree with that because I believe that I am very accepting of everyone else's personalities and ideas.

How do you think these results may influence your behaviour in a team?

As outlined in the *Interactive Leadership Style Assessment*, one of my biggest gifts is being able to empower people around me so that they may achieve their best. Along with this attribute, being able to be an assertive front-line leader that can support those that need help along the way which in turn means I will be able to steer my group down the correct path and extract the most out of everybody to achieve the best possible result for each other.

How should you take this into account when forming a team?

With the ability to support those around me and extract the full potential of all team members, I believe that a team with a vast array of skills and attributes would be most beneficial for a successful and diverse group project.

## **Project idea**

### **Overview (88 words)**

My project idea is to create an application for passionate go kart racers like myself which we can use for a universal of karting tracks to not only record and compare lap times, but to also keep a ranking of which go kart racers are the best in the state/country/world. This application would be used on one's mobile phone or computer device for which they can also be-friend others that they kart with keep track over each other as they improve to become the fastest go karting driver.

### **Motivation (166 words)**

My passion as a Go Kart driver started in the later months of 2021 when my uncle and wider family would drive down to Sunshine to drive at AceKarts. This hobby began as a fun activity during my break between high school and university, but the more and more times we went karting, the more we improved and more competitive we got. To this day we still compete to get the quickest lap time

of the session to we can claim to be the fastest drive of the night, but the only problem with this system is that getting a quick kart was the entire goal and key elements such as average top speed and consistently quick lap times was unable to be tracked. This is the key motivation into developing an application that myself and other go kart drivers a like can use to keep track of their performance and compare their true statistics to their friends and competitors alike rather than quickest single time.

### **Description (282 words)**

My project idea which I would like to create in order to equip all Go Kart drivers with the necessary data to not only improve their own racing but also to compare and challenge their rivals would be an application that collects data from a racer's session. This data would include key information for an driver such as all their lap times within a session, average speed over the session, competitors, positions gained and lost and so much more. By collecting, it will help achieve another goal of this application which is to be able to rank a specific driver based on all the data that the application can record. This will give the users the ability to easily compare how they stand to other drivers. Furthermore, given that drivers from across the state/country/world won't be racing at the exact same track, the users will be able to input which track they are competing/racing at and therefore be able to access information such as track records and other racers that compete at the same track. In order to store and access such a huge amount of information from vast array of different tracks and users, we would need to use a database in the cloud such as Amazon RDS (Relational Database services).

The application must have a user-friendly design with the functional aspects to search for multiple track and access track data such as, number of corners, track distance, top drivers, etc. A user-friendly design is a key attribute of the project idea if we are to attract users into using the program and sticking with it for a long while until further updates are brought out to compete with competitor applications.

### **Tools and Technologies (231 words)**

The application design would be created to cater as a phone app primarily as most users would be able to login into certain track when at the physical location and link their data to the existing timing systems. Although the phone app is the primary design, the application would be able to run a pc/laptop over the web which would provide the same information and usability as the phone app, but would be useful for those user's that don't have a mobile phone or one that is incompatible with the required software.

By using a cloud-based database to store all of the collected data, we can integrate it into almost any existing system at certain hire tracks or personalised karting transponders to provide that data to the database. Furthermore, the database is easily manageable with the ability to actively record and process data without the need to a full time DBA (Database Admin). Additionally, by using a cloud database, updating and maintaining other critical software. However, there a few drawbacks when it comes to a cloud database, the cost of such a database can be expensive and given if the application were to reach an international level, then then it would be very costly at that scale. Also, large-spread outages can become a concern to the database, and it would be the responsibility of the service provider to reboot the system.

### **Skills required (155 words)**

App development would be the front and foremost skilled required in development of the application as this is the environment that the project idea has been based on. Popular mobile app development software such as Appy Pie or Zoho Creator, offer the ability to create apps with little to none coding experience. Furthermore, these bits of software allow the developer the ability to integrate data from other applications such as our Amazon RDS which easily allows for a relationship with a simple end-user app and an efficient and large-scale database system with the ability to store and sort data.

Basic skills in database management may be needed in order to maintain and make adjustments to the database. However, most of the sort out for features such as security, compliance, performance and patching and upgrading are automatically managed by the server itself which leaves the developer more time optimising and connecting existing systems to its database.

### **Outcome (86 words)**

With a successful project, the application could be released to all user's within the large-scale area for which the cloud database can support. This development hopefully will have an impact on the way individual system that are already in place can interconnect via the cloud database to share its data and resources to their users. This application should hopefully solve the problem with users only being able to compete based on lap time and provide a more in-depth and competitive racing experience for all drivers alike.

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