



Assignment: COSC2196 – Assessment 3: Our I.T. Project  
Due Date: 27/11/2020 - 11:59 PM

## Team Members

Name	Student Number	Contact information
Adam Mutimer	S3875753	<a href="mailto:S3875753@student.rmit.edu.au">S3875753@student.rmit.edu.au</a>
Channon Harper	S3871491	<a href="mailto:S3871491@student.rmit.edu.au">S3871491@student.rmit.edu.au</a>
Daniel Scarfe	S3872217	<a href="mailto:S3872217@student.rmit.edu.au">S3872217@student.rmit.edu.au</a>
Jorge Esteban	S3874914	<a href="mailto:S3874914@student.rmit.edu.au">S3874914@student.rmit.edu.au</a>
Madeleine Dupree	S3879009	<a href="mailto:S3879009@student.rmit.edu.au">S3879009@student.rmit.edu.au</a>
Samuel Mennen	S3876937	<a href="mailto:S3876937@student.rmit.edu.au">S3876937@student.rmit.edu.au</a>

GitHub Pages Link: [https://adamm-au.github.io/COSC2196\\_A3/](https://adamm-au.github.io/COSC2196_A3/)  
GitHub Repository: [https://github.com/AdamM-AU/COSC2196\\_A3](https://github.com/AdamM-AU/COSC2196_A3)

# Contents

---

Team Profile .....	5
Mission Statement: .....	5
Personal Information:.....	5
Adam Mutimer:.....	5
Channon Harper .....	6
Daniel Scarfe .....	6
Jorge Esteban .....	7
Madeleine Dupree:.....	7
Samuel Mennen: .....	8
Group Processes: .....	8
Career Plans: .....	9
Overview .....	9
Adam Mutimer .....	10
Channon Harper .....	10
Daniel Scarfe .....	11
Jorge Esteban .....	11
Madeleine Dupree.....	12
Samuel Mennen .....	13
Tools .....	14
Project Plan .....	14
Overview .....	14
Topic .....	14
Motivation .....	14

Landscape .....	14
Detailed Description .....	14
Aims .....	14
Plans and Progress.....	14
Roles .....	14
Scope and Limits .....	14
Tools and Technologies .....	14
Testing.....	14
Timeframe.....	14
Risks.....	14
Group Processes and Communications .....	14
Skills and Jobs .....	15
Group Reflection.....	15
Overview .....	15
Adam Mutimer .....	15
Channon Harper .....	15
What went well?.....	15
What could be improved?.....	15
At least one thing that was surprising? .....	15
At least one thing you have learned about groups. ....	15
Daniel Scarfe .....	15
What went well?.....	15
What could be improved?.....	15
At least one thing that was surprising? .....	16

At least one thing you have learned about groups. ....	16
Jorge Esteban .....	16
What went well?.....	16
What could be improved?.....	16
At least one thing that was surprising? .....	16
At least one thing you have learned about groups. ....	16
Madeleine Dupree .....	17
Samuel Mennen .....	17
References.....	17

# Team Profile

---



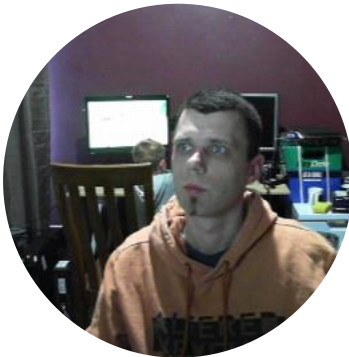
## THE FIGHTING MONGOOSES

### Mission Statement:

Our mission is to unlock our full potential in the field of information technology, by gathering, compiling, and sharing our knowledge and information within our group and those who seek it. To learn new skills and further others to proficiency in our chosen specialised fields. We have come together as The Fighting Mongooses with the ambition to fulfil this task without hesitation or fear, just like a wild mongoose.

### Personal Information:

Adam Mutimer:



I was born in Melbourne, Victoria in 1988 and moved to Horsham, Victoria 5 years ago.

I am currently 32 years of age,

I have two kids a boy (Age 4) & girl (Age 5),

I have worked in the I.T Industry since 2008 and have enjoyed every moment of it.

**Languages:** English

**Nationality:** Australian

**Hobbies:**

I enjoy Repairing Vintage Electronics, Designing and Building hardware compatible with vintage computers, Hiking, Camping, Drone Flying, and so much more.

## Channon Harper



I am 33 years old born 1987 in Bacchus Marsh Vic now residing in Greenmount QLD, I am married and a father of 1 dad of 2, I am also a proud member of 'The Flying Mongooses'. My hobbies include fishing, camping, making things with my hands, as well as messing around with programs and software to see what can be done with them. My interests in I.T. is all to do with the programming side of things as well as the vulnerabilities that some systems have, also gaming everyone loves gaming. My experience is all self-taught if there is anything, I don't understand I typically sit and learn it by any means necessary. I have previously made RPG, side scrollers, and text-based games, I also have knowledge in the use of all leading software be it office 365, Eclipse or Atom, to name a few. After completing this course, I will have my first qualification in this field and will also be doing some Cybersecurity Certifications.

## Daniel Scarfe



My name is Daniel Scarfe. My student number is S3872217. My background is Australian, born in the country, Western Australia, in 1984. I've lived in W.A. my whole life. By way of education, I completed Certificate IV in I.T. in 2005. I have previously been a student at Murdoch University, where I studied Environmental Science before switching to Statistics, finishing with 35 out of the 72 credits needed for a Bachelor of Science. My first job after high school was working at a computer store for three years, selling and servicing computers. My last job was as an Electrical Trade Assistant. My hobbies are music, sport, movies and following U.S. politics. I have an interest in I.T. because of all the vast amounts of information it makes available to you, the ability it has to connect you with people and ideas far beyond your physical location and its practical applications for solving problems, making life easier and more fulfilling.

## Jorge Esteban



My name is Jorge Esteban, Student number s3874914 I'm 35 years old and a member of the "Fighting Mongooses" I was born in the city of Tijuana Mexico. I'm not very sure about my heritage, but all my family were born in Mexico. Most people in Mexico are "mestizos" which means we are a mix of indigenous and European descent, mostly Spanish, I speak Spanish as my mother tongue and English as my second language. One fascinating fact about me is that I'm not too fond of spicy food, something scarce if you're from Mexico. As for a hobby, I love to play football (soccer), I play at least once a week, and it also helps me to keep in shape. I play midfield or left-wing. Another aspect about me is that I'm married, and I have a 2-year-old daughter. I moved to Australia back in 2012. Since then, I have had many jobs. I tried to continue my career in Australia as an environmental technician. But I realise that I was not enjoying that career anymore. Since 2014 I started to work in supermarkets and liquor stores, which I found very fun to work in. Since then, I moved up getting more responsibilities until I was offered a job on Hamilton Island as a liquor store manager back in 2016, and since then, I've been living in Tropical Hamilton island. Some Cybersecurity Certifications.

## Madeleine Dupree:



My name is Madeleine (Maddie) Dupree, and my student number is S3879009. I am a 23-year-old Australian born woman with English and Irish heritage. I have lived in Victoria my whole life and speak only English. My hobbies include video gaming, sketching and multiple crafts. I have an interest in I.T. because I have some basic skills with computers, but I would benefit greatly from professional education in this area. I am always fixing the computer issues my family has and enjoy the problem solving so I think I may enjoy knowing more about I.T.

## Samuel Mennen:



I was born in Australia with Polish, Irish and Dutch family background. I finished high school in 2007 and began work as a sound technician from 2009. Over the next nine years, I travelled around Australia working at events large and small specialising as a monitor operator. In 2015 I decided to pursue a University Degree and commenced my bachelor's in international studies. During my studies, I studied the Japanese language, International history and politics. I have also had the opportunity to study abroad in South Korea at Pukyong National University in Busan as part of their international summer school program. In 2018 I finished my bachelor's degree and later moved to Japan with my girlfriend (now wife). Over the next two years, I worked in Japan in the Education and Tourism industries. After getting married in early 2020, my wife and I decided to return to Australia and continue our lives together here. I joined the Fighting Mongooses team to collaborate with passionate individuals who hope to achieve great goals and make a difference through the use of technology.

## Group Processes:



## Career Plans:

### Overview

#### I.T. Skills

Ranking system 1-10 how important skill is to the ideal job. 10 being must-have, 5 being basic knowledge, 1 is not required.

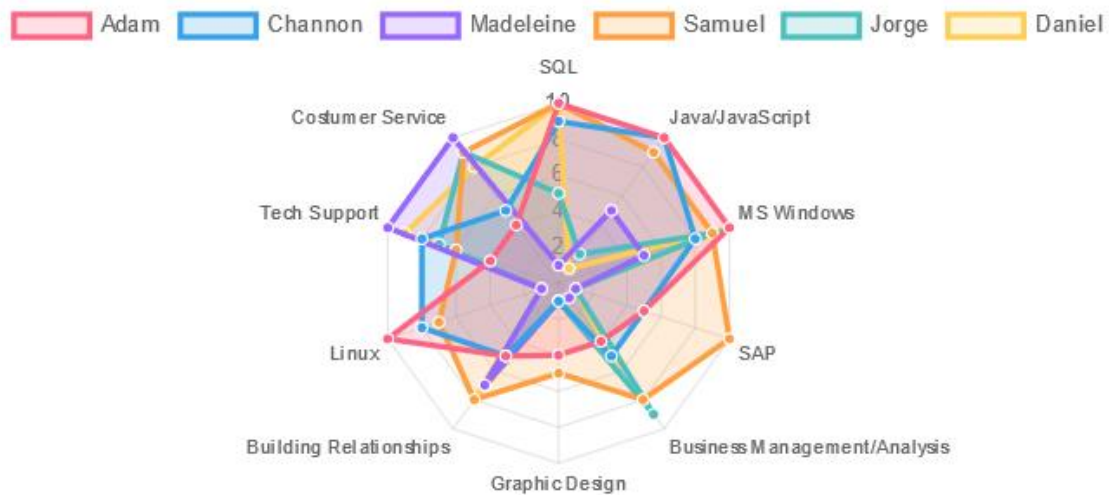


FIGURE 1: BURNING GLASS TECHNOLOGIES RANKING 2018

#### I.T. Skills

Ranking system 1-10 how important skill is to the ideal job. 10 being must-have, 5 being basic knowledge, 1 is not required.

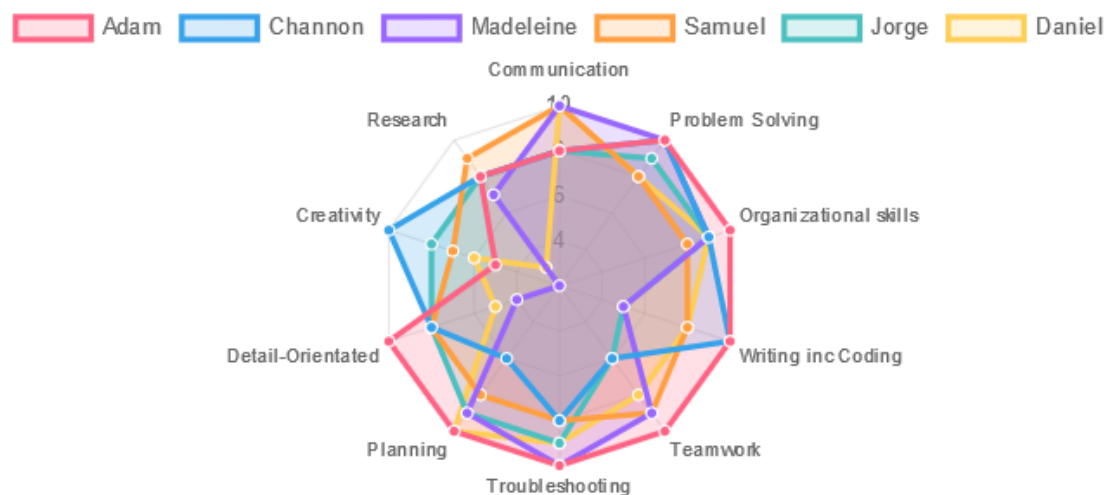


FIGURE 2: BURNING GLASS SKILLS RANKING 2018

Adam Mutimer

### **Ideal Job: Backend Developer**

My Ideal Job would be a Backend Developer. A **Backend Developer** in simple terms is a lot like a builder; they build a house from the foundation to the structure (framework). They would then hand off to the **Frontend Developer** - or in the case of a builder, an Interior Designer - whose focus is on the customer-facing aspects of the development or in other words what people are going to see.

I find the role of a **Backend Developer** appealing as its more orientated to the work I find most appealing and exciting. However, I am also comfortable with **Frontend Development** as the two roles do require quite a bit of crossover. These roles can also be combined into a single position which is called **Full Stack Developer** but again even though I have a lot of the skills required to be a **Full Stack Developer**; I prefer the complexities of **Backend Development** work as to be perfectly honest we make the real magic happen.

My Chosen career path is very different from my fellow teammates, being they are more support and frontline orientated positions and will not require in-depth knowledge or programming, databases, etc. However, there will be some crossover in skill sets at a minor level. Channon's chosen field of cybersecurity would have more crossover in skills with my chosen field as **Backend Developer** as I would also need to take into account certain aspects of cybersecurity during development stages to ensure the application is secure and will work appropriately with other security steps taken externally to the application. Channon would also require some programming skills and to some extent knowledge of database operations and management.

Channon Harper

### **Ideal Job: Cyber Security (field yet to be determined)**

My ideal job will be in one of the fields of Cyber Security. The positions in cybersecurity vary in their own ways but keep the same basic knowledge under them. My main reasoning for this is to protect from any cyber-attacks that are occurring or may occur in the future, to stay ahead of the hackers and implement fixes to prevent any intrusion. It holds a lot of the skills I find exciting and enjoyable with the main one being the languages behind programming and how they can be manipulated. I believe taking a role in this field will be beneficial as we all depend on secure systems, and the knowledge to achieve this will be highly sought after.

I believe my Ideal Job holds similarities to Adams as it has a lot of programming language based knowledge. There is some overlap of similarities with the others; however, the primary goals are very different. To my understanding, Maddie's, Daniel's, Sam's and Jorge's all hold very similar aspects of work.

Daniel Scarfe

**Ideal Job: Systems Administrator**

My ideal job is a Systems Administrator for a City. It involves working on a Network Services team, providing administration and technical support of server infrastructure and project management for upgrades as well as providing back up support. It involves computer networks in a government environment. Administering and developing corporate systems, servers, databases, and data storage interests me, As well as ensuring the integrity and availability of data and email systems. There is also planning and developing server, storage, backup, disaster recovery, and network infrastructure solutions. The position of a Systems Administrator is very different from Adam's ideal job of a Backend Developer and Channon's perfect job of Cyber Security Analyst as they are predominantly software-focused. There are similarities to Madeline's perfect job of I.T. support officer, which also provides technical support and I.T. systems maintenance. There is also a lot of crossover with Sam's perfect position of System Integration Officer as it too involves working with I.T. systems and networking, as does Jorge's ideal job of I.T. Support Specialist.

Jorge Esteban

**Ideal Job: I.T. support specialist**

My ideal job would be to become an I.T. support specialist. I chose this job because I think this is an excellent job for someone with my skills. I believe this is a great job to start a career in the I.T. industry. I have a lot of experience talking to customers and answering their queries.

I.T. experience for I.T. support specialist is between 3-5 years

As of 2020, there are 9748 IT support specialist] positions available according to Seek.

**I.T. Support Duties & Responsibilities of the Job**

When compiling an I.T. Support job description, here is a selection of duties to include:

- Installing and configuring computer hardware, software, systems, networks, printers and scanners
- Monitoring and maintaining computer systems and networks
- Responding in a timely manner to service issues and requests
- Providing technical support across the company (this may be in person or over the phone)
- Setting up accounts for new users
- Repairing and replacing equipment as necessary
- Testing new technology
- Possibly training more junior staff members

**I.T. Support job qualifications and requirements**

Although a formal degree might not always be necessary in an I.T. Support role, tertiary qualifications can include the following:

- Computer Science
- Computing
- Engineering

There are also several qualities that candidates should be expected to display:

- A technical, logical thought process
- Problem-solving skills
- An ability to stick to strict deadlines
- An ability to prioritise and delegate
- A keen eye for detail

### **How does my job compare to my team members?**

In regards in how my job compares to my other team members. Adam and Channon have very different career paths compared to Daniel, Madelaine and Samuel. Channon and Adam are more orientated in the back end of software and data analysis, while the rest of us are more inclined towards the front end of things like talking to customers, management and service.

Madeleine Dupree

### **Ideal Job: I.T. Support Officer**

My ideal job is to provide I.T. support to fellow staff members at SANE Australia. This requires a lot of problem-solving skills, an understanding of Mac computers rather than Windows and very little programming skill.

This is quite different from Adam's ideal job as he wishes to work behind the scenes as a backend developer, building the framework of the software he creates. The job I chose does not involve this sort of creativity or programming skill. Channon's ideal position is similar to Adam's in that it requires a lot of knowledge of programming languages and creativity, unlike my job selection.

I think my job is similar to Daniel's as he also chose a job that is based around providing I.T. support. However, his ideal job does involve more responsibilities than mine, such as project management and development of the systems used by the company/government. I would say my perfect job is similar to Sam's in that we both can see the reward in working to help others access the community/healthcare. However, Sam's job revolves around developing, maintaining or enhancing business applications, whereas my job is to provide more general support for colleagues. I think my ideal job is most similar to Jorge's perfect job because we both wish to work in I.T. support.

Samuel Mennen

**Ideal Job: System Integration Officer**

My ideal job is as System Integration Officer. Specifically, integration for people with impairments such as vision or auditory as well as other disabilities. The integration officer's main objective is to seamlessly integrate humans and technology by developing, managing and maintaining integration systems. This requires the integration officer to have a broad range of knowledge across a variety of I.T. systems and combines elements of both frontend and backend development as well as an understanding of business practices and people. A strong focus on data manipulation and automated systems are essential for any position as an integration officer.

As the system integration officer is required to work alongside all facets of information technology, both technical and user-focused, the skills necessary overlap with many of my Fighting Mongoose colleagues' ideal jobs. Adam (as a backend developer), Channon (as a cybersecurity officer) and Daniel (as a systems administrator) all have technical focused ideal jobs. Strong knowledge of database systems and structure is essential for all these occupations and technical aptitude in networked systems. Jorge and Maddie's ideal jobs (both as I.T. support) also share similar skill sets with integration officers as both roles require direct communication with user-end clients. The main difference of a systems integration officer compared to the ideal jobs of my colleagues is that the integration officer is mainly responsible for developing and maintain the tools that allow both sides to work together.

The most crucial baseline skills for integration officers, communication, ranks highly among my colleagues. As communication is the most in-demand baseline skill based on Burning Glass Technologies' data, this is no surprise. Furthermore, the required baseline skills in problem-solving, teamwork and organisational skills also rank highly amongst my colleagues and myself. Perhaps my required baselines skills lean more towards Maddie and Jorge's ideal jobs as both integration officers and I.T. support staff communicate heavily with user-end clients and business management.

As the required skills were similar to those of my colleagues, a wide variety of skills is essential to assimilating to a team environment. Acting as an integration officer requires me to work alongside both frontend and backend teams as well as finding solutions with clients and business entities.

# Tools

---

## Project Plan

---

### Overview

Topic

Motivation

Landscape

### Detailed Description

Aims

Plans and Progress

Roles

Scope and Limits

Tools and Technologies

Testing

Timeframe

Risks

Group Processes and Communications

# Skills and Jobs

---

## Group Reflection

---

### Overview

Adam Mutimer

Channon Harper

#### What went well?

Much to the same of assignment 2, I believe everything went well. With the mark, we received put us in an excellent place to continue the dedication into the third and fifth assignment. We decided to continue with the development of our idea before the feedback received, which I believe gave us a slight leg up to other groups, possibly. We believed in what we had done prior and went on assuming this.

#### What could be improved?

In terms of improving its typically hard to say with the project idea, although we were all in the same boat with what we were doing maybe some ideas of how it worked were left to pass. With specific tasks received for the input of the assignment, some were unsure as to parts of the program which we could have made more transparent for understanding to them.

#### At least one thing that was surprising?

Surprising to me, was the sheer trust we had after our earlier assignment. We all knew what each other could do so the need for extra communication was minimal as we believed it what each other would do. The other thing is the extra effort once someone had completed there set task to help in others that were not assigned to them to make sure the project was completed by the date given.

#### At least one thing you have learned about groups.

I learnt after this session that you can work in a group with minimal conversation and still achieve a finished product. It was the same for assignment 2 just more trust was given this time, and I believe we were not hindered by it. The more you get to know your group members, the more you understand what they would be right at and setting those roles is a huge benefit to everyone.

Daniel Scarfe

#### What went well?

#### What could be improved?

Everything went fairly smoothly considering the added freedom that was given to us as a group and therefore, the added uncertainty that came along with it. There may have been room for improvement with our meeting schedule. But we made it work well enough.

**At least one thing that was surprising?**

The momentum carried over from Assignment 2 was a pleasant surprise as this helped us immensely by allowing us to feed off one another's energy and gave a sense of reassurance knowing we had each other's back and were indeed in this together.

**At least one thing you have learned about groups.**

My main takeaway from this group work is that it's not as daunting a task as I first had dreaded it would be, though I have the feeling I lucked out by being in a good group as I have heard other groups had trouble in several areas of group work.

## Jorge Esteban

**What went well?**

This time I feel the team was more relax working on this assignment. The idea of our project was already established from A2, and it was easier to communicate and work together when we all have the same vision of what we wanted to create. I am very proud of what the team have accomplished and been part of it.

**What could be improved?**

We could have improved communication. I'm saying this because I think as the assignment's become more complicated in the future, we might not be able to designate individual tasks and would have to work more closely with all team members. But overall, it went well, Considering that we all have jobs and some have families plus we live in different states with different time zones.

**At least one thing that was surprising?**

The commitment of every team member was outstanding. It shows that everyone in this team wants to succeed in this course. Another thing that surprises me is that everyone is willing to help other team members.

**At least one thing you have learned about groups.**

The creativity of working in groups is fantastic. When you have six minds, focus on one objective. Then things flow much more effortlessly.



Madeleine Dupree

Samuel Mennen

## References

---