

Resume Mark Pepere

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Portfolio: <https://27011389.github.io/Portfolio/>

Career Objective

I want to be involved in Full-Stack development and Cloud Computing, I love coding, testing, documentation, and Networking!

I get excited about the structure of problems, how things work, and how a solution might be found. A good clean direct solution is a thing of beauty, but if the way is blocked, finding an orthogonal path is an exciting challenge! I enjoy communicating ideas, collaborating, and sharing knowledge and skills.

Skills Summary

Self-development

Self-directed learning is a core part of my learning and development practice. Self-directed learning to me is all about initiative. As a self-directed learner, I take responsibility for identifying my own learning needs, producing goals, finding the right resources, and monitoring my progress.

To succeed at independent learning, you have got to have the right attitude. Not only does it require enormous self-discipline and organizational skills, but I must also be able and willing to evaluate my progress. This skill set goes far beyond simply memorizing facts for a test.

Client Interaction - Communication

Client Interaction and Communication is an area that I enjoy working on because I find myself to be quite an extroverted person and thrive off interactions and conversations with other people. I treat client interaction and communication as if I were speaking to a family member or friend, this has helped me over the years to relax, listen and have others feel comfortable around me. I have found listening to someone is a powerful tool in life inside and outside of work.

Documentation - Attention to Detail

Being a Civil Drafter over the years one of my main jobs was to ensure accuracy in the work that I produced. It is a critical part of being a designer as engineers, managers, and external companies rely on the information I was providing. I did this to an extremely high standard. An example of this is when I created the CAD standard documentation for TM Consultants.

Problem-solving

I am a strong logical thinker, with a creative bent. When faced with a problem, I will investigate the underlying cause, and seek out workable solutions. As well to help me succeed in the academic setting, my problem identifying and solving skills have helped me to set up a workplace seminar program from scratch, investigate shift restructuring proposals, and liaise the resolution of product development hiccups.

Problem-solving is made up of multiple components from Analytical skills, Research skills, Creativity, Decision-making skills, Critical-thinking skills, Collaboration, Communication skills, and many more.

Delivery under Pressure

Pressure is something I enjoy and delivering under heavy pressure is a skill that I enjoy working on. Working for a construction consultancy you gain a good understanding of time and cost mixed meeting milestones and producing deliverables. At TM Consultants it was up to every employee to manage their time spent on each project while also considering deadlines are being met. Working on multiple projects at a time came with a lot of pressure in deadlines in which I thrived. To ensure my deadlines were met I would ensure I prioritised each job, create lists where needed, and was able to delegate if necessary. Working well both autonomously and in a team ensuring that each job was completed to a high standard, within deadlines therefore within budget.

Education

St Bede's College

1996 – 2000

Experience Summary

Senior Civil Designer - TM Consultants, Aurecon

Feb 2013 – Dec 2020

Residential Drafter - Lockyer Drafting Design (Australia)

July 2007 – December 2012

Carpentry Apprentice - Dixon Homes NZ

January 2001 – June 2007

Detailed Experience

Senior Civil Designer - TM Consultants, Aurecon

Feb 2013 – Dec 2020

I was Project lead designer for many jobs including Ravensdown and Rolleston town center. Working for TM Consultants it was my job to manage the project from start to finish. The process would normally start with a kickstart meeting with the client/s to work out what they were after and provide a cost-effective solution.

Below is an itemized list of tasks that could be performed on any given project conducted by myself.

Typical tasks

- Client meetings.
- Site meetings for inspection and signoffs.
- 2D and 3D design (Civil 3D).
- Writing out reports for anything from site visits reports explaining what we learned from the site visit and any corrections or changes that are needed at that point.
- Pavement, Stormwater, Sewer, Associated long sections, and Water design.
- Earthworks Plans, Bulk Cut and fill Plans, demolition Plans.

Projects I have been involved with

- Dean's head rock repair, Sumner, Christchurch.
- Spark mobile tower sites New Zealand-wide.
- Preston's subdivision, Christchurch.
- Bus interchange, Christchurch.
- Southdown Kiwi rail, Auckland.
- Earthquake response team NCTIR, Kaikoura.
- Akaroa Health Hub, Aylmers Valley Road, Akaroa.
- Rolleston Town Centre.
- Ravensdown, Main South Road, Hornby, Christchurch.

Finally, I was tasked with the job of creating the CADD development and processes company standards (Civil 3D). This was a manual that a drafter could turn to for all company standards in everything relating to CADD drafting.

Residential Drafter - Lockyer Drafting Design (Australia)

July 2007 – December 2012

I received a chance to learn about residential drafting and the processes involved with design. We typically would measure up for extension and provide solutions for the client's needs. Displayed with full working drawings, site plans, elevations, cross-sections, and floor plans.

Carpentry Apprentice - Dixon Homes NZ

January 2001 – June 2007

After leaving St Bedes, I had the opportunity of a Building apprenticeship with Dixon Home working on new house construction as well as renovations and older style homes. Duties typically would span outside the scope of today's construction standards such as kitchen installs, tiling, and roofing.

Technical Skills

C++

In the first year at Yoobee college, we covered everything from the fundamentals like for loops and if-else statements to Object-Oriented Programming. We started by learning the syntax and terminology, picking up and developing small programs along the way. I found the fundamentals quite easy to pick up but once getting into the program development I saw the true power of C++ development where you need to be very direct. This is what I love about C++ development.

Python

Picking up python in year two we learned the same principles and C++ just learning the difference in syntax. I did find with python the community is a lot more active than the C++ community making the development process easier to work with. I have found going from C++ to Python a substantial change as what you are trying to say and be written a little looser within python.

Github

Github was tricky to pick up at first but with some persistence, I have come to use Github daily. Like everyone else, I use Github to push project code to a safe and managed location other than my desktop. The advantages so far, I have found with Github are when working in a team and having multiple commits whereby you can review each commit.

AWS Cloud

In year 2 at Yoobee, we had four options in our side elective (Artificial intelligence, Networking and security, Gaming, and Cloud Computing). I went with Cloud Computing as I see the benefit of the cloud and where it is heading in the future.

Setting up and configuring the following:

- VPN.
- Public and Private Subnets.
- Configuring of Route table.
- Storage configuration with S3.
- AWS RDS, DynamoDB.
- AWS Cloud Adoption Framework (CAF).
- AWS Billing and Cost Management.

Figma

Figma has become a core part of my UX/UI design process. It is a web-based graphics editing and user interface design application. I find Figma useful for many reasons but creating lo-fi and hi-fi wireframing with speed and flexibility is what I like and allowing for prototyping is another strong.

Agile / Waterfall development model

Learning about the diverse types of delivery models has been a revelation. Coming from a construction background where the waterfall model is typically used for project delivery IT has over the last few years adopted the agile model.

Networking and Cyber Security

I have taken an extra micro-credential this year (2022) under Networking and Cyber Security always gravitate towards both topics and enjoy learning about them in me. Skills I have acquired over the years are general penetration testing with Kali Linux.

Windows, Linux, and Mac Operating Systems

Windows - When it comes to operating systems, I have been using Windows since before I can remember. Typically, I have found when it comes to troubleshooting Windows PCs and Laptops, I have found the problem to be more than likely a hardware issue by not having the right drivers or the hardware itself not up to the standard that is required for the task or tasks being performed by the operator. When it is a Windows issue 9/10 someone else has had the same issue and it has been solved, otherwise, it is a reformat.

Linux – Linux is by choice an operating system that I enjoy using as it provides a strong level of customization aimed around performance vs UX/UI. I like that I can remove all the bloat from the OS and only have what is needed to run and operate. I have used many different distros from the more common ones like Ubuntu and Mint to Kali and Endeavour.

Other notable languages and software I use: HTML, CSS, Svelte, React, Notion, QT, MS Visual Studio, Visual Studio Code, Atom, and Adobe Suite.

Project Experience

BitTicket – Yoobee Assignment

2021

Introduction

In most organisations, help desk systems are particularly important and provide key support to employees as well as the company. The system to be developed will be designed for a hypothetical school. BitTicket was implemented on Qt and developed in C++.

Development Approach

This project was approached using the waterfall/agile method. The team felt that the combination of the two methods was well suited as it is simple to manage each phase of the project. This is an advantage as the timeframe is only 5 weeks long with precisely defined requirements and allows a good amount of reviewing at the end of each phase. Utilising peer programming techniques and scrum meetings allows the team to hit deadlines and manage workloads.

Key tools/skills

- Notion was used for Document Control and Planning.
- GitHub was used for version control of code.
- QT was used for UI layout and function implementation.
- C++ was the language used with QT.

SubAssist – Yoobee Assignment

2021

I was tasked at Yoobee to create an application that provided cross-platform support for Windows PC, Mac, IOS, and android. subASSIST was created to be a place to view, book the needed tradesman at any given time, and generate invoices and quotes on the fly with a clean interaction from website to social media. The idea for this was because both my father and brother run construction companies and I saw first-hand the time that was invested in running the business in and outside of normal working hours. There was an area where technology could provide automation that has not been discovered yet.

CastMap – Yoobee Assignment

2022

Our first project in year two was to create a cross-platform application that was full-stack. From the planning phase of the development cycle, selection of the application and the selection of the Tech stack itself. CastMap was created using Svelte for the Frontend and Django-PostgreSQL for the Backend.

Interests

My interest over the years has changed from your classic kiwi Rugby Player and Fan to enjoying some slower-paced activities such as Fishing, Diving Rowing, and Golf. I play squash twice a week to remind the body that we must move to stay fit. With the previous lockdown, I found a new joy in reading and how much it can claim and grow the mind.

References

David Dunlop - Manager at TM Consultants

Contact Number: 021 686 193

David was my drafting manager at TM Consultants for 3 years.

Reon Teweka - Manager at Aurecon

Contact Number: 027 229 2439

Reon was my drafting manager at the Aurecon for 3 years.

Academic References

Dr. Farhan Khan - Level 7 Tutor, Software Engineering.

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