



# Kevin Allen

## E Portfolio

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Mob: #####

### Personal Information

I am a rather private and reserved person who enjoys the company of small intimate groups than large gatherings. I enjoy road trip exploration and would very much like to take up hiking and extended camping in the Australian bush/outback pack mule pioneer style, with a small group or alone. This would be great for my secondary interest of star gazing, and what better view can you get then from a total non-light polluted sky 😊

### Education

Primarily my formal education to date is Tafe/College level with qualifications in HVAC as trade certified, and Facilities Management which was a correspondence course. Other than that, all my education is through life lessons at the school of hard knocks.

### Interest In IT

I won't bore the reader with all the types of employment, trials and tribulations that I have had in-between then and now, but in my most recent career in facilities management I typically use software and platforms to streamline work for the team and improve how we work. Using software like Excel (Formula mainly, but VBA/macros where possible, Smartsheet etc. Disclaimer I am no expert in either but love to learn so I research how the formula/code works in different scenarios, and develop to suit my application which I actually enjoy when designing something that would benefit the team and progress my own skills.

I would very much like to take the experience I have within FM, and mechanical and electrical trades and take it to the next level by incorporating IT and programming strength to work within a more software design and development role working on software and tools to improve the industry and staff/client experience. So I am hoping to get a good grounding in general IT, database management networking, Programming and even web design from my course with RMIT.

The choice to study online with RMIT is purely coincidental, and was one of the courses for IT and programming that was available for online study - 😊

Ultimately, I have two high level goals

1. Progression to a field that I will enjoy and take my experiences to create and develop useful tools
2. Gain useful skills that can challenge me in a new way

# Ideal Job

## Senior Software Engineer Job in Sydney - SEEK

Senior Software Engineer

Waterco Limited ★ 3.0 • 4 reviews

Sydney • CBD, Inner West & Eastern Suburbs

Information & Communication Technology • Developers/Programmers

\$140,000 - \$159,999 • Full time

Posted 11h ago

More jobs from this company

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Work remotely (work from home) from anywhere in Australia :  
Sydney, Melbourne, Brisbane/Gold Coast, name your choice.

Exciting opportunity in a newly created role and would suit a software designer who wants to see his designs and ideas come to life. The role offers flexibility to work from home or at one of our offices or a hybrid of home and office.  
At Waterco, we are pioneers of reliable solutions for healthy, safe water environments. We've embarked on a journey to improve the customer experience through offering a connected IoT Platform that connects to Waterco smart devices, and provides intelligence that help make smarter, more sustainable pools for our customers.

About the Position:  
  
You will research, design and develop software systems that help create smarter pools for our customers. You will work collaboratively with our related companies, to design and develop software systems and liaise with other engineering staff in Australia and WFE Malaysia, and other stakeholders (sales & marketing, warranty team, etc) to determine the operational performance criteria of the whole system and products being designed and developed. Your focus will be on Cloud Services, IoT, Data Analytics related software development projects.

Responsibilities:

- Responsible for all specialist engineering facets of software development
- Conducts significant engineering assignments alone or as member of a project team
- Contributes ideas and concepts and shares knowledge to aid the product development team in developing products, systems and innovations suitable for commercialization
- Prepares data for more complex projects and recommends alternate ways for resolving engineering problems
- Prepares and presents technical reports
- Institutes changes in methods, design or equipment
- Determines operational performance criteria of the systems and products being designed and developed
- Node.js/Typescript developer

Qualifications & Experience:  
The ideal person we're looking for is someone who is an expert in the following four areas.  
1. Cloud Services:

- GraphQL
- Postgres SQL database
- Certificate based authentication, x.509
- Understanding AWS services, Terraform scripts, Docker

2. Frontend developer:

- React/Typescript, CSS
- Experience with GraphQL

3. Mobile developer:

- React Native/Typescript
- Android and iOS
- Experience with GraphQL

4. Embedded software

- Embedded Linux
- Python, C/C++
- IoT connected devices with certificate based authentication, x.509
- Understating of circuit board schematics, PCB design
- Device field testing and mass manufacturing

We acknowledge that these four areas require different set of skills. As a minimum we'd like you to be an expert in two areas, or be an expert in one and have a firm understanding in other areas. For example, an expert Frontend/Mobile developer with good knowledge of Node.js, or an embedded software developer with a good understanding of IoT infrastructure.

Other requirements:

- Have firm understanding of
  - Project development life cycle (from planning to product release)
  - Software testing and CI/CD
  - Releasing and deploying software to different environments (development, staging, productions)
- Bachelor of Engineering, Information Technology, ICT, Software Engineering or related tertiary qualifications

What's on offer:

- Excellent remuneration
- Flexible working culture including work from home
- Working with high calibre, high-quality team members
- Loads of autonomy to self-manage with no micro-management
- Exciting product development and transformation projects across the business
- Stable work environment-we're a public listed company with 40 years in Australia

### Software Engineer

A position that assesses needs, consults with all stakeholders for feedback at all levels, and designs and creates the software solutions to achieve the desired outcome. In a group and also working alone. This position would fit my mindset and how I conduct my current work to a greater degree. I personally enjoy finding solutions to design and how to improve usability and streamline implementation of platforms. My focus is not just on executive outcome, but also the end user AND employee experience and how to streamline their activities.

This position requires a great deal of skills which is reflective of the exact role with this employer. I will highlight the most pertinent skills only

### Skills

- Engineering experience software design
- Team corroboration and contribution
- Technical reports
- Procedural experience
- Skilled in statistical performance and design

### Software

- GraphQL –data query language
- Postgres SQL database –relational database management system
- Certificate based authentication X509
- Terraform/Docker scripts –language
- React/Typescript CSS – Programming language for frontend development.
- Linux – Operating system for networking equipment
- Python/C++ - Programming languages

My current skill set relates more to my experience to date with team management and corroboration on all facets of FM including technical review with contractors. As operations management, procedural drafts and changes as well as statistical reporting for operations would be a benefit to the role

From a software and technical level, I would have to start from fresh and learn through

- 1) Current course being performed with RMIT
- 2) Identify through research the prime programming languages that are used, decide and take additional training and aim to specialise in a focussed language rather than multiple ones.
- 3) Additional online training or campus training that would improve my understanding and skills.

## Personal Profile

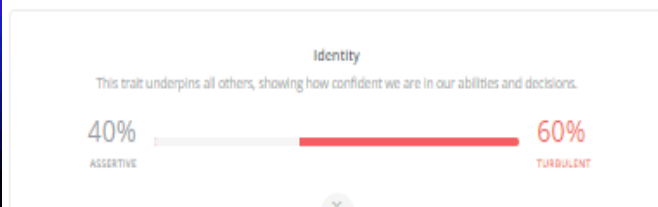
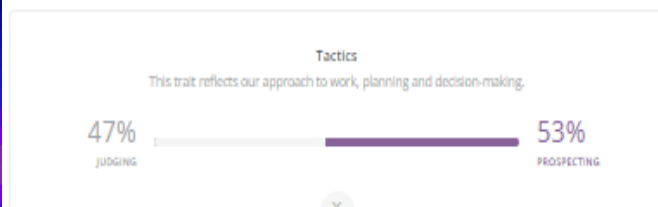
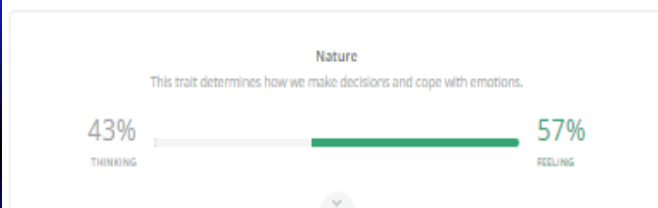
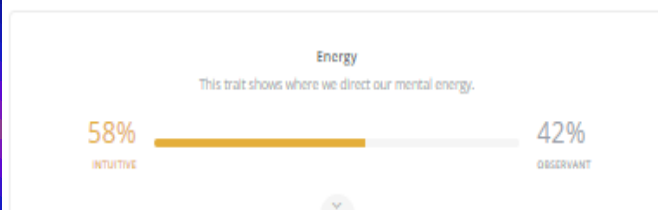
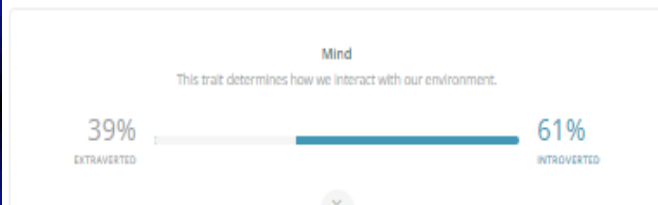
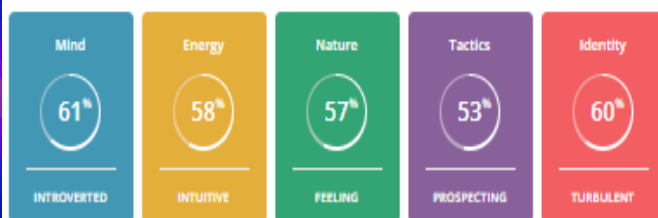
Personality test taken from 16 personalities Survey returned the below results based upon my answers. I have analysed and compared in red KA – Consider only highlighting specifics to reduce waffle





TYPE:	Turbulent Mediator	?
CODE:	INFP-T	?
ROLE:	Diplomat	?
STRATEGY:	Constant Improvement	?

### Personality Traits



## Mediator (INFP) Strengths

**Empathetic** – Mediators don't just care about other people in an abstract sense. These personalities can actually feel another person's emotions, from joy and elation to sorrow and regret. Because of this sensitivity, Mediators tend to be thoughtful and kindhearted, and they hate the idea of hurting anyone, even unintentionally.

**Generous** – Mediators rarely enjoy succeeding at other people's expense. They feel called to share the good things in their lives, give credit where it's due, and uplift the people around them. These personalities want to contribute to a world where every voice is heard and no one's needs go unmet.

**Open-Minded** – Tolerant and accepting, Mediators try not to judge anyone else's beliefs, lifestyles, or decisions. This is a personality type that prefers compassion to fault-finding, and many Mediators feel empathy even for those who have done wrong. Because they're so accepting, Mediators often become confidants for their friends and loved ones – and occasionally for total strangers.

**Creative** – Mediators love to see things from unconventional perspectives. Few things give them more pleasure than allowing their minds to wander through all sorts of ideas and possibilities and daydreams. It's no wonder, then, that many Mediators are drawn to creative pursuits – or that this personality type is well represented among writers and artists.

**Passionate** – When an idea or movement captures their imagination, Mediators want to give their whole heart to it. People with this personality type may not always be outspoken, but that doesn't diminish their strong feelings for a cause that speaks to their beliefs and convictions.

**Idealistic** – Mediators strive to follow their conscience, even when doing the right thing isn't easy or convenient. They rarely lose sight of their desire to live a meaningful, purpose-filled life – one that helps others and leaves the world a better place.

## Mediator (INFP) Weaknesses

**Unrealistic** – Nothing in this world is perfect – and that can be a difficult truth for Mediators to accept. People with this personality type can be hopeless romantics, with rose-colored visions of what their lives should be like. This can set Mediators up for disappointment when reality inevitably falls short of their dreams.

**Self-Isolating** – Mediators long to connect with others, but they don't always know how. Especially in new environments, Mediators may be reluctant to put themselves out there in ways that would help them make new friends or become involved in a new community. As a result, people with this personality type may sometimes feel lonely or isolated.

**Unfocused** – Mediators' imaginative, introspective nature doesn't always lend itself to productivity. Many Mediators get frustrated by how difficult they find it to buckle down and get things done. The problem isn't that they are incapable – rather, it's that they run into problems when they become so caught up in different ideas and ideals that they fail to commit to a course of action.

**Emotionally Vulnerable** – The emotional attunement of these personalities is among their greatest strengths. But unless Mediators establish boundaries, they can be at risk of absorbing other people's negative moods or attitudes.

**Desperate to Please** – Conflict tends to be stressful for Mediators, who yearn for harmony and acceptance. When someone dislikes or disapproves of them, these personalities may become fixated on trying to clear the air and change that person's mind. Unfortunately, Mediators' desire to please others can drain their energy, eclipsing their inner wisdom and their awareness of their own needs.

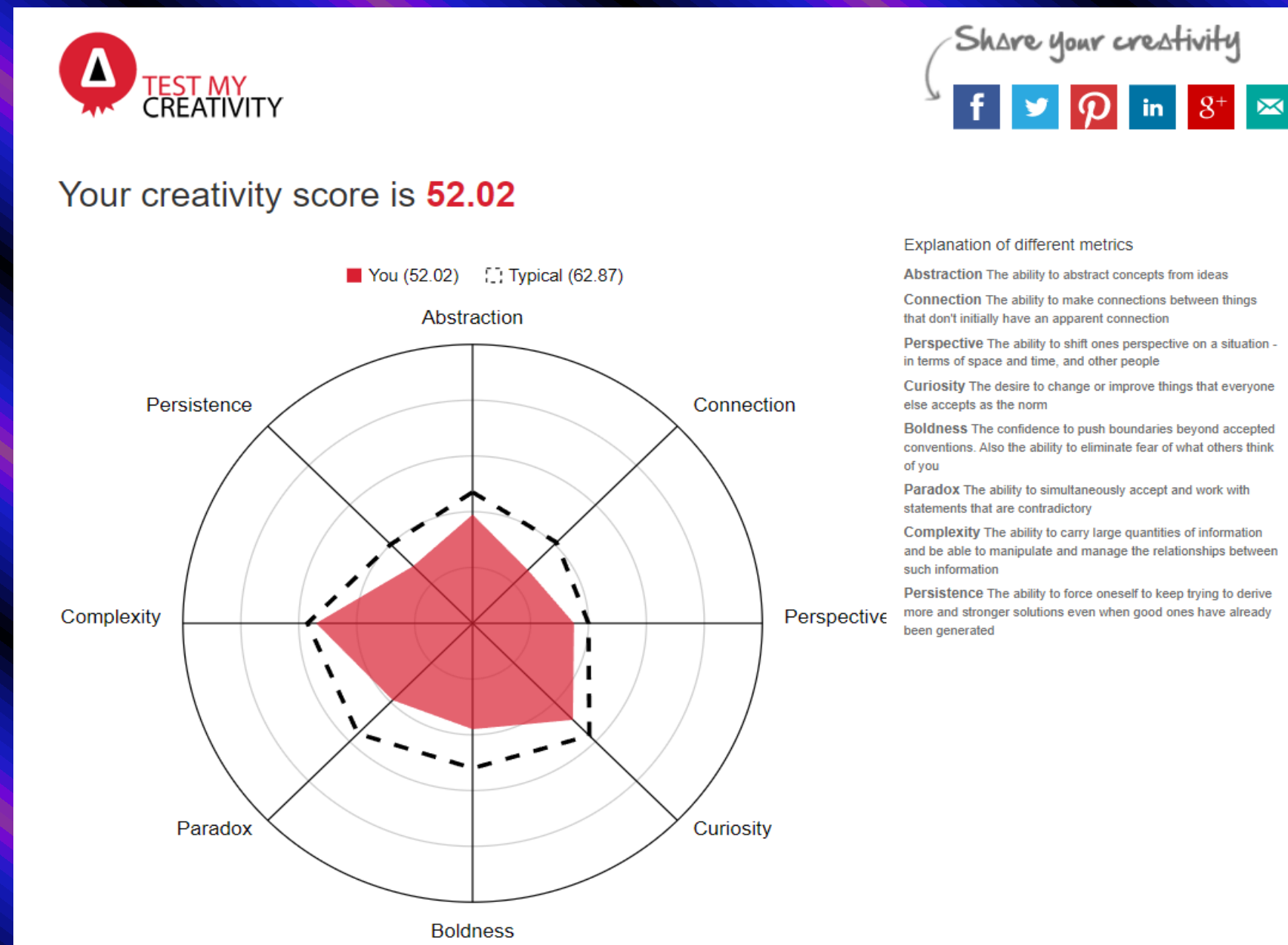
**Self-Critical** – Mediators believe in their unique potential, and they desperately want to live up to it. But this can cause them to have unrealistic expectations for themselves. When Mediators fail to live up to these visions, they may accuse themselves of being useless or selfish or woefully inadequate. Taken too far, this self-criticism can discourage Mediators, leading them to give up on even their dearest dreams.

## Review of Survey

The 16 personalities survey results are uncannily accurate, and I do see a lot of the results in myself. Example of one Strength and one Weakness;

**Generous.** I dislike praise or compliment to myself, instead I measure my success based on how well my team are performing, how they feel achievement and acknowledgement from client on their work, and when they feel a good sense of accomplishment from confidence.

**Self-Isolating.** I am more comfortable in small intimate groups, rather than large unfocussed noise events, and I am quite comfortable in my own company or with one or two others when working on a project or activity. That is not to say that I cannot handle large meetings, projects or works, as that is my normal day, but I am more comfortable in smaller settings.



Other Surveys that I completed

## Your learning style results

The highest score reflects your main learning style. If you have two equal scores please give both when asked.

### Your scores

Theorist: 5  
Activist: 2  
Reflector: 6  
Pragmatist: 7

#### Theorist: your score 5

These learners like to understand the theory behind the actions. They need models, concepts and facts in order to engage in the learning process. Prefer to analyse and synthesise, drawing new information into a systematic and logical 'theory'.

- Models
- Statistics
- Stories
- Quotes
- Background information
- Applying theories

#### Activist: your score 2

Activists are those people who learn by doing. Activists need to get their hands dirty, to dive in with both feet first. Have an open-minded approach to learning, involving themselves fully and without bias in new experiences.

- Brainstorming
- Problem solving
- Group discussion
- Puzzles
- Competitions
- Role-play

#### Pragmatist: your score 7

These people need to be able to see how to put the learning into practice in the real world. Abstract concepts and games are of limited use unless they can see a way to put the ideas into action in their lives. Experimenters, trying out new ideas, theories and techniques to see if they work.

- Time to think about how to apply learning in reality
- Case studies
- Problem solving
- Discussion

#### Reflector: your score 6

These people learn by observing and thinking about what happened. They may avoid leaping in and prefer to watch from the sidelines. Prefer to stand back and view experiences from a number of different perspectives, collecting data and taking the time to work towards an appropriate conclusion.

- Paired discussions
- Self analysis questionnaires
- Personality questionnaires
- Time out
- Observing activities
- Feedback from others
- Coaching
- Interviews



# Project Idea

To be clear, this is not a unique and new style of platform, but rather an interpretation of existing platforms that do exist such as

- Pinnacle
- Emaint
- Maximo

To name a very few CMMS (Computerised, maintenance, management system) that are in the market. There are plenty more on all kinds of platforms from desktop based, to web/network, through to smartphone applications to choose from.

Some CMMS are designed bespoke for the client company to meet their needs. As an example my current employer CBRE utilises Service Insight 7 for our client account asset management. Knightfrank, another Real Estate and Facilities service provider also uses a bespoke CMMS platform called Facilities Response Centre (FRC) to support their clients.

Operations FM is a constantly changing market, especially with the advent of the Covid 19 Pandemic and the way clients are looking at real estate and its usage. Our client account has seen moves towards constricting the office workspace SQM with the new norm of working from home, and staff only attending site offices for corroboration activities. This the client is planning on managing by a dedicated booking system for seating in advance.

Examples of CMMS application

Assets Management	Emergency and call centre	Financial Management	Statutory Compliance	Reports	NEW – Booking system
Asset Register	Helpdesk	Budgetary upload	Annual Fire Safety Certification	PPM Schedule Metrics	Workstation booking
Warranty	Contractor management	Expenditure to date reports	Lift Registration	Work orders Metrics	Meeting Room Bookings
Asset Depreciation	Rostered staff	PO generation	Risk Assessments		Availability interface
Reports		Invoice receipting			Utilisation data management
PPM Schedule		Financial Reports			Security Access control – programable cards

My planned project is to design a type of booking system for workstations and meeting rooms that could potentially be incorporated into a Bespoke CMMS at a later date.

- Workstation Bookings
  - Number allocate desks to a visual floorplan of the office. To show free workstations based on user date input.
    - Set variation on how many days can be booked consecutively.
    - Decision to be made on minimum hours ie can we allow a minimum booking of 2-4 hours to allow other users use.
    - Set variation on how many days can be booked consecutively.
  - Email confirmation to user on successful booking
  - Email notification to security team controlling access control to office. Security activate and program staff allocated security card for the duration of access. This is a bespoke option due to my client security controlling access.
- Meeting room bookings
  - Name/number allocate meeting rooms to a visual floorplan of the office.
    - User entered date, time and duration will show free meeting rooms and basic block visual of other bookings for that day
    - Minimum booking 1 hour
    - Set variation on how many days can be booked consecutively.

- Email confirmation to user on successful booking
- Email notification to security team controlling access control to office. Security activate and program staff allocated security card for the duration of access. This is a bespoke option due to my client security controlling access.

Utilisation data will be collected based on access control and booking system above. This data will be in a reportable format for client review and recommendations.

Business Operating System for Space (BOSS) [Business Operating System for Space](#) is an existing functional booking application that can be rolled out immediately. However from internal programming tools required I lack the experience just yet in programming to be able to determine the language and frontend that would be purposed for this. So this part will be a work in progress as my experience improves.

### **Skills required**

- Back end Programming language
- Front end programming
- Graphical design
- Database
- Security – Data privacy and ensuring data is secured

This project is more advanced at this stage than what I am, so this will be part of a ongoing development plan. I am hoping to develop the above to work within full bespoke CMMS and control platform that interfaces asset management, financial platforms, Bookings, helpdesk, property management, security access and communications to name a few ideas I have for full GUI system.

Websites, publications and survey sites that provided information for this profile.

- [Seek](#)
- [HTML&CSS - Jon Duckett](#)
- [16 Personalities](#)
- [Mumford and Honey LSQ](#)
- [Thomas Bierly design advisor](#) ;-)