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Personal Biography

My name is Paul Webster, I was born in Nowra NSW. I am of English heritage, three of my Grandparents were born in England and moved here after the Second World War the fourth was born in and raised in the Nowra area. My father is also English he was 7 when his parents migrated.

I completed Year 12 but have not undertaken any formal education since. I have attained numerous Information Technology (IT) qualifications throughout my working life, however these have mostly lapsed as I am not continuously using the technologies.

I am married with two children, 10 (girl) and 8 (boy). My wife is English, we met while I lived in Manchester for seven years. At home we are a 100% English speaking household, I have tried to learn Indonesian, German and French, without much success.

While growing up I was a good Rugby Union player and was fortunate enough to represent the Under 17 Australian team in New Zealand.

IT Interest and Work History

While I was growing up my grandfather was an electrical engineer for the Royal Australian Navy and he had a keen interest in computers and computing, this intrigued me and started my interest in technologies when I was around 10 years old.
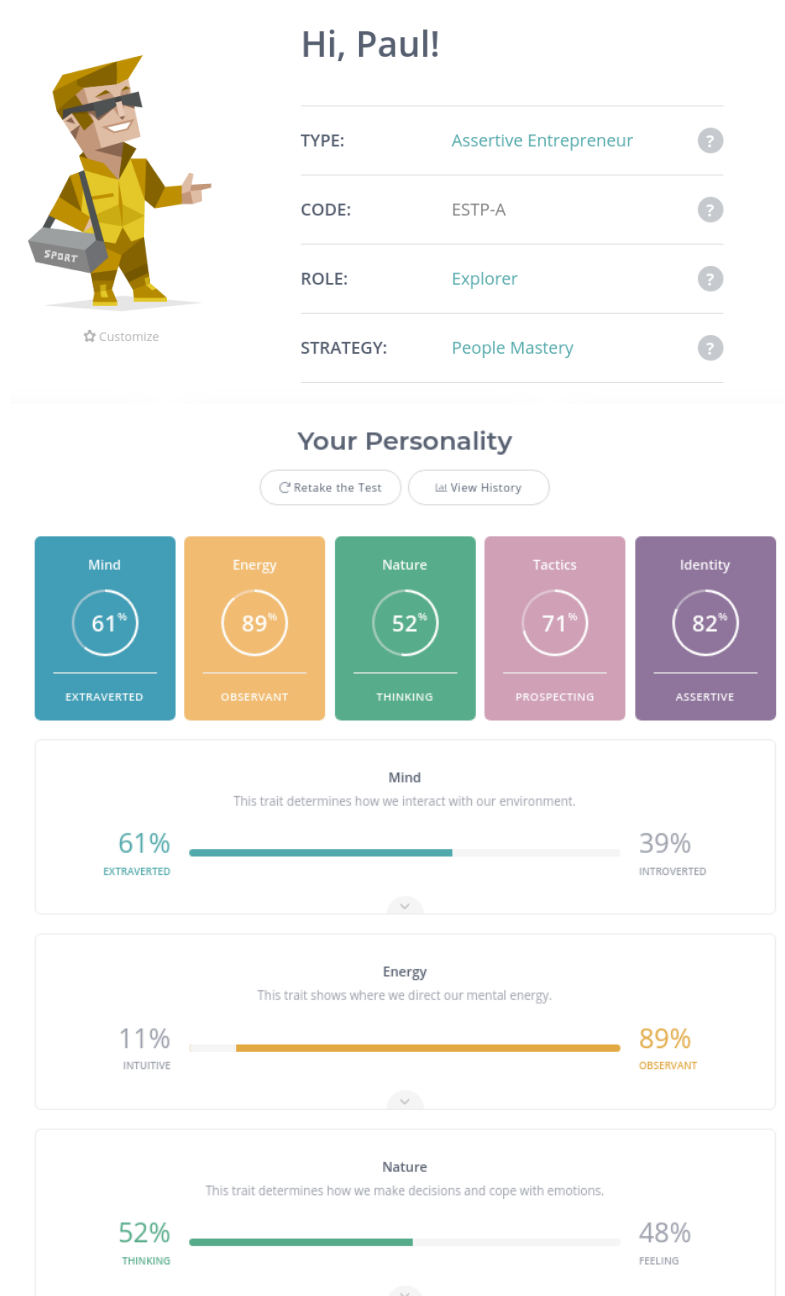
When I left school, I moved to Sydney to play rugby in Manly and was fortunate enough to earn a job with a stockbroking company in the city. While working there I became very proficient with computing and was extremely good with data input and began working to extreme time constraints. I moved to England and started a job with a small financial company that did not have many employees and found myself helping the onsite IT support person doing upgrades, migrations after hours and on weekends. This person finally moved to a new role with the company when it started to expand into Europe, and I found myself as the local IT Support person for the three Northern United Kingdom (UK) offices. This involved supporting and implementing, Microsoft Active Directory (AD), Microsoft Office, computer, server and network maintenance and management, IBM AS400 management and I would travel to user locations to work with their financial files and write macros specifically for them to export information to a format that was compatible with our systems.
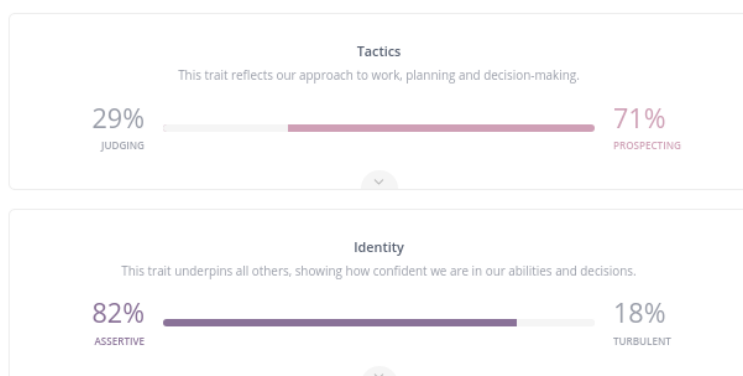
After working in the industry for a while now, I have seen a lot of university student come into the workforce and demonstrate innovative ideas and thought processes. I decided it would be beneficial for me to attain an accreditation to complement my industry experience.

I am completely unsure of what this study will bring, which is quite an interesting situation, having worked in the industry for 20 years I am not sure what I will learn. Maybe I will be able to help some of the younger students who have questions about what roles there are in the industry and where there is a demand to assist with their employment opportunities.

Myers-Briggs Type Idicator Results

Having done the Myers-Briggs test multiple times before, I think that I have never returned the same result, not only is it not the same it is usually different quadrants. This has led me to really rely on these results. I am good at reading people, this tends to serve me better than paper evaluations. My experience when recruiting has been that resumes talk volumes about an applicant's technical skills and if they do not understand what they are saying it will lead to an inconsistency with the application.

Hi, Paul!

TYPE:	Assertive Entrepreneur	?
CODE:	ESTP-A	?
ROLE:	Explorer	?
STRATEGY:	People Mastery	?

☆ Customize

Your Personality

⟳ Retake the Test   ㅣ⚆ View History

Mind	Energy	Nature	Tactics	Identity
61%	89%	52%	71%	82%
EXTRAVERTED	OBSERVANT	THINKING	PROSPECTING	ASSERTIVE

Mind
This trait determines how we interact with our environment.

61% EXTRAVERTED — 39% INTROVERTED

Energy
This trait shows where we direct our mental energy.

11% INTUITIVE — 89% OBSERVANT

Nature
This trait determines how we make decisions and cope with emotions.

52% THINKING — 48% FEELING

I love working in a team and usually thrive under pressure. I have never really understood the science behind these tests except that you should put certain types of people together in a team, to deliver the best outcome. A leader, abstract and logical thinkers and multiple workers tend to form the best teams on paper.

Learning Style Results

This was the first time that I have undertaken a learning style test. I found this to be quite a good assessment of myself and would agree with the outcome of this test, I definitely learn better with "doing" something rather than reading about or being instructed about something.

I am unsure how this impact the team, I would assume that as with the Myers-Briggs evaluation that if you have different learning behaviours in a group then the group should function better. If they are the same, then the thought patterns and ideas tend to be related and your do not get differing perspectives to problems and processes.

Inductive Reasoning Short Test Results

Inductive reasoning is an assessment that I have undertaken a few times, I usually struggle with the time side of things with these, and this was no exception. My understanding of what these tests are used for is unknown, but I would assume that they are used by academic institutes or think tanks to get people who think in a particular way that is aligned with the outcomes desired from the project or activity. A group that is constructed of people who have differing aptitudes to cognitive thought would increase the productivity of the group.

Improve Your Score With Accurate Practice - Inductive Reasoning Short Diagnostic Test

80

Passing Score [?]

Total Questions: **15**

Correct: **13** ✓ | Incorrect: **2** ✗ | Unanswered: **0** --

Ideal Job

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Commonwealth Bank

Enterprise Architect

Commonwealth Bank - Enterprise Services ★ 3.5/5

Sydney • CBD, Inner West & Eastern Suburbs

Information & Communication Technology • Architects

Full Time

Posted 10h ago

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This role to me is perfect for explaining why I am doing this course. This role requires understanding of Enterprise Architectures and where IT is moving with concious thought into how it will get there. Designing systems to change with the fast past banking sector, to keep the company integrity but still maintain alignment with the demands brought on by the advancement of the underpinned IT environment. Working with customers so that they can realise the benefits of working "with" a large entity.

The role requires an IT degree, usually any is fine, background in consulting and experience in strategizing IT systems. Being an abstract thinker would be benficial.

Project Idea

Concept

A solution that utilises Raspberry Pi's and the General Purpose Input Output (GPIO) programming that they support to send communication from isolated networks to the support staff outside working hours. Network monitoring tools provide alerts and messaging when systems fail or have moments of degradation, on the isolated networks it is not possible to relay these messages to support teams that are either on-call or working remotely. Secure Systems currently use complicated and expensive data diodes to allow data traversal between segregated systems.

Motivation

Working for the Government I have been involved in secure networks outside the public realm. These secure environments are segregated from the internet and forms of terrestrial communications creating an "air gap". This causes problems for support of the environment outside normal office hours. The air gapped systems alerts are sent to a Raspberry Pi on the air gapped system, it is possible to generate a GPIO connection to another Raspberry Pi that is on an internet or 4/5G network (non-air gapped) and thus enable external communications. Security is not an issue as you are only sending electrical impulses across the GPIO board.

Description

This idea is really going back to the beginning of IT, this would equate with the old punch cards people used when clocking in and out of the factory. You need to establish message solution through the GPIO board from Raspberry Pi A (segregated) to Raspberry Pi B (internet connected). There would be three message alerts that Raspberry Pi A would be listening for and need to inform Raspberry Pi B, and these would be categorised as:

1. Warning – An event occurred that has self-rectified.
2. Alert – An event occurred causing a degradation of an identified service.
3. Outage - An outage has occurred that needs remediation.

When the GPIO code is established and tested, Raspberry Pi A needs to be added to the air gapped environment and the monitoring suite updated to send alerts to the listener agent on the Raspberry Pi A. When alerts being generated initiate the Raspberry Pi A to initiate the GPIO code and this code is then received by Raspberry Pi B. Concurrently, Raspberry Pi B needs to be configured to generate a notification (email, SMS, automated phone call) to the support teams identified. When all the systems have been tested and are working in isolation, the system can be tested from end to end.

Security approval is required, and the system owner needs to be informed of the changes to the environment.

Tools and Technologies

The tools required for this solution would be 2 x Raspberry Pi, a GPIO board, an internet connection, or Short Messaging Service (SMS) capability and the monitoring tools on the air gapped environment.

Skills Required

- Ability to solder.
- Raspberry Pi / Linux coding.
- Systems administration of the monitoring suite.

There is lots of online websites dedicated to help people use Raspberry Pi's to do all sorts of things, there should be enough information to assist with the coding required. There is also lots of sites that are there to support GPIO programming for Raspberry Pi's.

Most people who work in IT can acquire and build Raspberry Pi's, there is lots of hardware available.

Outcome

For the project to be successful end to end communication from the monitoring suite to the support team would have been established. A full-scale test would have been conducted to ensure timeliness of response from outage to resolution and support reaction times would be within the defined parameters. If this was achievable, then the numerous air gapped system (globally, Government, power companies, critical infrastructure, banking) could then establish support solutions in a cost-effective manner.