Tyson Buzza

Personal Data

Place and Date of Birth: Narrogin, Western Australia | 23 January 1990

Address: 167 Fern Rd, Wilson, 6107, Perth, Western Australia

Phone: 04 3951 1269

Email: tyson.buzza@gmail.com

Work Experience

2017 Software Engineer for Haultrax

Mining Consulting Services

• Maintaining and updating legacy code (C#, WPF) • Implementing a new version of the Haultrax Productivity Solution (Python, SQLAlchemy) • Using GPS data to determine when a haul truck is loaded and emptied • Using these load and dump events to determine the effiecency of the haul trucks, and the number of cycles completed in a day • Web UI for displaying the resulting data (JavaScript, Node, Express, Polymer) • Deployment on GE's Predix PaaS and a Microsoft server on the Telstra Cloud Infrastructure

2017 Programming Contractor for Bonsai Branding

Branding and Design

• CRUD Website implementation • Using the Elixir Phoenix framework for the backend • Using ReactJS for the frontend • Continuing an existing project after handover from another programmer • CRUD application for managing catering and kitchen logistics for ingredients, recipes and products • Deployment on AWS • Continuous integration using Buildkite

2016-2017 Programming Contractor for Great Southern Fuels

Fuel Distributor

• CRUD Website design and implementation • Using ASP.Net MVC and Entity Framework • Allows users to access their monthly Statements and Invoices • Splitting large text files into separate customer Statements/Invoices • Producing PDF files based on the extracted text • CRUD application for managing fuel orders, jobs, the vehicle fleet, drivers, and customer tanks

2014-2015 Mechatronics Assistant at Applus RTD

Non-Destructive Testing

• Soldering DB9 connectors • Using RS232 to communicate with motor controllers

and a laser range finder • Motor control software design and implementation • System monitoring software, design and implementation • Electrical design, drawing schematics and assembly • Providing maintenance engineering support to the project/site to maintain and improve plant operations and profitability as directed by the client in accordance with the client site requirements • Performing scheduled maintenance inspections and repairs • Conducting training for Applus RTD personnel in the use of equipment • Completing maintenance reports

2013 Programmer at Haefeli-Lysnar Surveying Equipment

Geospatial Solutions

• Receive NMEA strings from a GPS over a serial port using C# • Writing end user manuals • Discussing project requirements with clients, identifying requirements, managing expectations, adjusting to changing project requirements and acting on feedback from deliverables • Developing mobile phone applications (Windows, Android, IPhone) • Wrote a GPS positioning system for drill rigs • Helped develop a total station program for position piles • Testing/debugging • UI design • Research and implementation of geographic coordinate systems

2011-2012 Business Improvement Assistant at Jason Windows

Glass Manufacture

• Data analysis - tracking production and waste material • CAD drawings - design of an A frame for carrying glass on a trailer and floor plans • Stock take • Compiling task list through discussion with other employees

Education & Training

Year	Qualification / Institution
2016	BCompSc (Distinction) Bachelor of Computer Science Charles Sturt University, New South Wales
2013	BEng (Hons) Bachelor of Mechatronic Engineering Curtin University, Western Australia
2012	Exchange Semester Technical University of Munich, Germany
2007	Australian Drivers Licence, Class C Department of Transport, Western Australia

See details at the end of document

Programming Skills

Intermediate Knowledge
Java, C#, JavaScript, Python, HTML, CSS, vim, Eclipse, Visual Studio, Linux, Windows
Web Development (ASP.Net, Ruby on Rails, Phoenix, ReactJS, Polymer)

Basic Knowledge

C++, C, Elixir, Ruby, ReactJS, SQL (Microsoft SQL, MySQL, SQLite), Git, Unit Testing, XML, TCP/IP, RS-232 Serial
Mobile development (Android, Windows CE, PhoneGap/Cordova, React Native)

Other Technical Skills

Basic Knowledge
Debugging electronic circuits, interfacing with cameras and GPS, GIS

Intermediate Knowledge
Faulhaber motor control

Interests and Activities

Technology, Programming, Science, Philosophy, History, Comedy, Science Fiction, Fantasy

Referees

Diederick Naude
Mechatronics Engineer
Applus RTD
Ph: 04 1003 5574
E-mail: Diederick.Naude@applusrtd.com

Jered Masters
Lead programmer
Haefeli-Lysnar Surveying Equipment
Ph: 04 3321 0107
E-mail: jered.masters@outlook.com

Bachelor of Computer Science

Charles Sturt University

Degree awarded on 9-Dec-2016 with Distinction (GPA 6.6)

Code	Title	Grade	Subject Points
	Credit for previous work		
ITC06C	6 Unspec Info Tech Subjects	TCR	48
ITC104	Intro to Computer Science	TCR	8
ITC105	ComInfoMan	TCR	8
MTH101	Computer Aided Mathematics 1	TCR	8
	2014 60		
ITC203	OO SAD	DI	8
MTH129	Discrete Mathematics	DI	8

Code	Title	Grade	Subject Points
2015 30			
ITC204	Human Computer Interface	DI	8
ITC206	Programming in Java 1	HD	8
ITC262	Operating Systems	DI	8
ITC331	Ethics and Prof Prac	DI	8
2015 60			
ITC205	Prof Programming Practice	HD	8
ITC212	Internet Technologies	HD	8
ITC222	Programming in Java 2	HD	8
ITC313	Database Management Systems	HD	8
2015 90			
ITC114	Database Management Systems	HD	8
2016 30			
ITC322	Data Structures	HD	8
ITC303	Software Development Project 1	DI	8
2016 60			
ITC309	Software Development Project 2	HD	8
ITC363	Computer Graphics	HD	8

Bachelor of Mechatronic Engineering

Curtin University Course completed on 20-Dec-2013 with Lower Second Class Honours.

Code	Title	Credits	Grade
2009 Semester 1			
307543	Electrical Systems 100	25.0	5
310205	Engineering Foundations: Design and Processes 100	25.0	6
307533	Engineering Materials 100	25.0	6
307535	Engineering Mathematics 110	25.0	7
2009 Semester 2			
310206	Engineering Foundations: Principles and Communication 100	25.0	5
307537	Engineering Mathematics 130	25.0	8
307529	Engineering Mechanics 100	25.0	7
310207	Engineering Programming 100	12.5	8
307594	Engineering; its Evolution, Development,	12.5	7

Code	Title	Credits	Grade
	Successes and Failures 100		

2010 Semester 1

Code	Title	Credits	Grade
308879	Electrical Circuits 205	12.5	7
308809	Engineering Graphics 232	12.5	7
308808	Engineering Mathematics 233	12.5	7
308768	Foundations of Digital Design 201	25.0	8
308805	Machine Dynamics 231	25.0	5
308824	Mechatronic Project 234	12.5	7

2010 Semester 2

Code	Title	Credits	Grade
308781	Electronic Fundamentals 202	25.0	6
310683	Engineering Management 302	25.0	7
308823	Linear Systems Modelling 232	12.5	6
308822	Mechatronic Modelling 231	25.0	7
308875	Programming 215	12.5	8

2011 Semester 1

Code	Title	Credits	Grade
308829	Automatic Control 321	25.0	8
12855	Embedded Systems Engineering 301	25.0	7
308828	Mechanical Design 321	25.0	6
308827	Mechatronic Automation 331	25.0	8

2011 Semester 2

Code	Title	Credits	Grade
307664	Engineering Law 202	12.5	8
307660	Engineering Sustainable Development 201	12.5	7
308826	Manufacturing for Mechatronics 332	25.0	7
308825	Mechatronic Project 332	25.0	6
12835	Power Electronics 304	25.0	5

2012 Semester 2

Code	Title	Credits	Grade
12911	Automatic Control 432	25.0	6
308787	Instrumentation and Control 402	25.0	7
11501	Mechatronic Project 491	25.0	5
310544	Professional Practice 434	12.5	6

2012 Study Period 5

Code	Title	Credits	Grade
12763	International Study (Study Exchange)	75.0	PASS

2013 Semester 1

Code	Title	Credits	Grade
308830	Mechatronic Project 493	37.5	5

Exchange Program

Technical University of Munich

Title	Grade	ECTS-Credits
Ubiquitous Computing	1,7	3
Machine Learning in Robotics	3.0	3
Energy Storage	2,0	3