

Devin Brendan Azzie

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Date: 14th April 2020

Objective

To gain more work experience in the field of software development which I am particularly interested in and understand how it is applied to real-world problems and start networking with people already well established in industry.

About Me

I am a mechanical engineering graduate who has been part of the NTT secure coding learnership program since 1 June 2019.

I have a passion for technology and simple, elegant solutions. I enjoy being challenged and mentally stimulated through my interaction with people who have developed skills in the areas that I am interested in. I thrive in a team environment and am always keen to learn as much as I can.

Technical Skills

- Python
- Basic JavaScript
- HTML, CSS, and Bootstrap 4
- MATLAB
- Simulink
- Have entry-level certifications in Cisco, Fortinet, McAfee, and Palo Alto Networks cybersecurity products
- Have completed basic White Hat Security training towards a Secure Coding Certification
- Experienced with Autodesk Inventor design software and can generate engineering drawings
- Basic Computational Fluid Dynamics (CFD) knowledge

Non-technical Skills

- Quick thinker
- Good at problem-solving
- Good presentation skills and am a natural-sounding speaker
- Basic product development skills
- Knowledge of SCRUM and agile methodology practices
- Easily adaptable to changing environments
- Work well as part of a team as well as alone.
- Good at breaking large problems down into smaller workable pieces
- Good at technical report writing
- Have worked as part of an agile team using the SCRUM methodology

Education

University of the Witwatersrand (2014 – 2018)

I have a Bachelor of Science in Engineering (Mechanical Engineering) and graduated on the 4th of July 2018.

2016 awards for third year of study included:

- Ethical Warrior Award for best student in the Engineering Ethics course of 2016

2015 awards for second year of study included:

- Dean's List

2014 awards for first year of study included:

- Dean's List
- Merit Certificate for achieving above 80% for the physics course PHYS 1014

Full academic transcript for tertiary studies is attached.

De La Salle Holy Cross College High School (2009 – 2013)

Matric Class of 2013

Final Matric results after writing IEB Matric final examinations were 7 A's and 2 B's

Full Matric Results are attached

Awards include:

- Diligence scroll for 2011 Academic Year (Grade 10)
- Academic Full Colours for 2012 Academic year (Grade 11)
- Academic Full Colours Re-award for 2013 Academic Year (Matric)
- Cricket 2nd Team scroll
- Athletics Team scroll
- Drama Full Colours
- Bene Merere Scroll (Equivalent of Half Colours for Service to the school)
- Awarded an Honours Blazer at Matric Valediction
- Awarded Commitment Trophy at Matric Valediction as voted for by staff
- Awarded Fellowship Trophy at Matric Valediction as voted for by peers
- Was part of the top 10 academic students in the grade for both 2012 and 2013

Experience

Secure Coding Intern at NTT Security (2019 – Present)

From the 1st of June until the present I have been part of the NTT Secure Coding Academy which is a learnership program at NTT. During my time as part of the program I have worked alongside many Cybersecurity experts from the Dimension Data Security business which forms part of Dimension Data business now and have further increased

my knowledge and awareness in Cybersecurity. I have obtained some basic cybersecurity certifications from Cisco, Fortinet, as well as Palo Alto Networks and McAfee which are listed on my digital profile.

I have worked on some notable projects while working at NTT Security:

- Dimension Data Dash
- Dimension Data Glance
- Doctrina
- 2020 Britehouse Timesheet Analytics Project

Dimension Data Dash is an enablement tool created by the NTT Secure Coding Academy graduates which aims to provide a high-level overview of security controls and highlights what each control is, why it is important, and what risks there are when the control is not implemented. Each control has its own dashboard and the tool is designed to have a very simple but effective user interface. The first iteration of the project is distributed in PDF format however future work to be done on the project is to create a web application version of the tool.

Dimension Data Glance is one of the winning products from Hackfest 2019.1 (a Dimension Data internal collaboration event) and is an application which will simplify the process of logging calls to Dimension Data's ITSM system making it easier for end-users to report malfunctioning equipment. It uses QR scanning technology to pull information on the room in which there is a problem and then through simple swiping gestures the user can log the issue for specific items in that room. The app will also function as an enablement tool to help A/V engineers perform their daily checks faster and log the calls at the same time.

Part of our learnership program included doing a 3 month rotation at Britehouse which is a division of Dimension Data and while there the NTT secure coding interns worked alongside the Britehouse 2020 graduates to create Doctrina and the Timesheet Analytics tool.

Doctrina is a website designed to display all the current Graduates of Britehouse on single platform and highlights their line of business interests as well as their skillsets. The graduates can be filtered according to their skills making it easier for recruiters within Dimension Data to find a graduate to fill a specific role within a particular team or business unit. Each graduate also has links on their Doctrina section that point to their Github Pages Digital Profile page as well as their Github account and their LinkedIn profile.

The Timesheet Analytics Dashboard project involves extracting the timesheet data out of SAP4Hana and storing it in a central database from which the dashboard will create different analytical views.

Technical Support Intern at J2 Software (2019)

I did a 3-month internship at J2 Software which is a small cybersecurity company specializing in affordable, managed security services for small to medium businesses. The internship ran from 20th February 2019 to 31st May 2019.

My job during this time was to operate the support desk for the business and as a result I gained experience in client interaction and support, I learned how to use the Mimecast Admin portal to perform various tasks related to email security. I had to troubleshoot a lot of technical issues that clients were experiencing and helped prevent some phishing email attacks. I learned a very basic understanding of what cybersecurity is it laid a good foundation for my cybersecurity knowledge. Every day taught me something new and put me into situations had never experienced before which helped me develop a strong skill in adapting to different situations in order to solve problems.

Vacation Work Program at Opti-Num Solutions (2016 and 2017)

The vacation work program ran for a total of eight weeks which were broken up as follows:

- 27 June 2016 – 8 July 2016
- 5 December 2016 – 16 December 2016
- 3 January 2017 – 27 January 2017

The period from 27 June to 8 July focused on undergoing a 3 day MATLAB Essentials training program which was followed by a 2 day Simulink training program and then the second week focused on having vacation work students reproduce a 45-60 minute webinar on MATLAB products in under 30 minutes and then deliver the presentation along with product demonstrations to the company.

The second period of vacation work was focused on a 6 week long project with a 3 week break over Christmas. Vacation work students were paired up with another engineering student from outside their discipline to work on a specific project. I was paired with an electrical engineer and together we designed an automatic water level control system using MATLAB products to design the water level controller and low-cost hardware to implement it. The entire design project was assigned a budget of R2000 of which only half was needed to buy and build the water tank system and the water level controller. The entire system was first modeled and simulated using Simulink from MATLAB and then the controller was deployed to the low-cost hardware for real-life testing and demonstration.

The final design was two plastic water containers which each had small water pumps in them that could feed water into the other tank. Ultrasonic distance sensors were mounted over the tanks and used to constantly measure the water tank levels. The sensors fed the water levels of each tank to the Arduino Uno microcontroller upon which the State-flow controller was deployed and depending on what the levels were in the tanks, the microcontroller would control the voltage supplied to each pump to allow them to change the water levels. The system as a whole allowed for a desired water level in the main tank to be selected and then the system would maintain the water level by emptying or filling the main tank from the reservoir tank depending on how the system was disturbed.

My role in the project as the mechanical engineer was to develop a mathematical model describing the fluid mechanics of the physical water tank system and pumps as well as select and build the required physical system of the two tanks. I was also responsible for designing and implementing the water level measurement system so that it could be incorporated into the system model. Over the course of the project, full documentation as well as a technical report was written up for the project.

References

Work was done under the supervision of Kirsten Smith who is an Application Engineering Manager at Opti-Num Solutions and contact details are available upon request.

General Worker at Creative Cabinet Solutions (2012 and 2013)

The time period during which the work experience occurred was during the mid-year and end of year school holidays during the last two years of high school.

The main responsibilities of the job included operating heavy wood-cutting machinery to cut boards to specified sizes, assembling cabinets from AutoCAD Drawings, operating a CNC Woodcutting Machine as well as aiding in installations on site of various different jobs that were running at the time.

References

Contact details of the business owner are available upon request.



UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

STATEMENT OF ACADEMIC RECORD

This is to certify that **Mr Devin Brendan Azzie** was registered as detailed below:

Student ID: 842690

Date: 25 June 2018

Program/Course

Final Marks	Result Code	Result Decision	Exam Type
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2014

Bachelor of Science in Engineering (Mechanical) (Full-Time)

CHEM1033	Chemistry I (Auxiliary) (Engineering)
MATH1014	Mathematics I (Engineering)
MECN1001	Introduction to Mechanical Engineering and Design
MECN1003	Engineering Drawing
PHYS1014	Physics I
PHYS1015	Mechanics

Year of Study 1

AGGREGATE: 77

OUTCOME: Permitted to proceed

2015

Bachelor of Science in Engineering (Mechanical) (Full-Time)

ELEN2000	Electrical Engineering
MATH2011	Mathematics II
MECN1998	Vacation Work 1 (Mechanical)
MECN2000	Fluid Mechanics I
MECN2005	Mechanical Engineering Laboratory I
MECN2006	Thermodynamics I
MECN2010	Introduction to Materials Science and Engineering
MECN2011	Applied Mechanics A
MECN2012	Computing Skills and Software Development
MECN2013	Applied Mechanics B
MECN2013	Applied Mechanics B
MECN2014	Mechanical Engineering Design I

Year of Study 2

69	C	PASS	
71	B	PASS	
		PASS	
75	A	PASS	
75	A	PASS	
68	C	PASS	
70	B	PASS	
71	B	PASS	
81	A	PASS	
33	F	WSP1	SUPP EXAM
		PASS	
75	A	PASS	

AGGREGATE: 70

OUTCOME: Permitted to proceed

2016

Bachelor of Science in Engineering (Mechanical) (Full-Time)

MATH3026	Mathematical Methods
MECN3002	Fluid Mechanics II
MECN3007	Mechanical Engineering Laboratory II
MECN3010	Mechanics of Solids I
MECN3012	Mechatronics I
MECN3013	Business Management

Year of Study 3

57	D	PASS
61	C	PASS
66	C	PASS
62	C	PASS
62	C	PASS
72	B	PASS



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Date: 25 June 2018

Program/Course

MECN3017	Thermodynamics II
MECN3019	Mechanical Engineering Design and Production
MECN3027	Mechanical Vibrations
MECN3028	Engineering in its Social Context
MECN3032	Numerical Methods and Statistics

Final Marks	Result Code	Result Decision	Exam Type
69	C	PASS	
68	C	PASS	
56	D	PASS	
72	B	PASS	
81	A	PASS	

AGGREGATE: 66

OUTCOME: Permitted to proceed

2017

Bachelor of Science in Engineering (Mechanical) (Full-Time)

MECN1004	Selected Topics in Social Science
MECN1996	Engineering Professional Activity
MECN1999	Vacation Work 2 (Mechanical)
MECN4005	Design Project
MECN4006	Research Project
MECN4013	Thermal Systems
MECN4020	Systems Management and Integration
MECN4021	Fluid Dynamics
MECN4023	Mechanics of Solids II
MECN4029	Mechatronics II

Year of Study 4

68	C	PASS
		PASS
		PASS
45	F	FAIL
65	C	PASS
50	D	PASS
69	C	PASS
69	C	PASS
72	B	PASS
64	C	PASS

AGGREGATE: 60

OUTCOME: Must return to complete requirements for year of study

2018

Bachelor of Science in Engineering (Mechanical) (Full-Time)

MECN4005	Design Project
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Year of Study 4

68	C	PASS
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AGGREGATE: 68

OUTCOME: Completed all requirements for the Qualification.

Qualification:

Bachelor of Science in Engineering
Completed all requirements for Qualification

Qualified : 25 May 2018
Graduated: 04 July 2018

Prizes & Awards:

UNIVERSITY OF THE WITWATERSRAND FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT
04 -07- 2018
JOHANNESBURG

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG



STATEMENT OF ACADEMIC RECORD

This is to certify that **Mr Devin Brendan Azzie** was registered as detailed below:

Student ID: 842690

Date: 25 June 2018

Program/Course

2014 Dean's List
2014 Certificate of Merit
2015 Dean's List

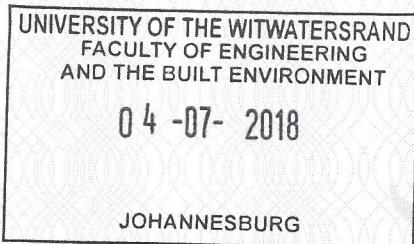
Final Marks	Result Code	Result Decision	Exam Type
PHYS1014		Physics I	

Scholarships:

2014 UNIVERSITY ENTRANCE SCHOLARSHIP
2015 UG -UNIV COUNCIL MERIT SCHOLARSHIP

The student has fulfilled the requirements for a certificate of conduct

Please note that the codes reflected in the transcript may differ from those in use at the time of the original registration.



EXPLANATION OF CODES

CODE	DESCRIPTION
PASS	Pass
PABS	Absent for a reason acceptable to Senate
PANC	Pass at auxiliary level, failed at major level
PASC	Pass: commended
PASH	Pass: highly commended
PAUX	Pass: may only proceed to auxiliary course (if there be one)
PCOL	Pass: College of Medicine
PCSU	Pass: suspensive conditions fulfilled
PDIS	Pass with distinction
PINC	Pass: may not qualify
PMCH	Pass: may only proceed to Chemistry
PMIN	Pass: mark above allowed minimum
PMNP	Pass: may not proceed to next course
PMPH	Pass: may only proceed to Physics
PNCR	Pass: no credit within Engineering degrees
PNEX	Promoted without examination to next course
PREX	Pass (re-examination)
FAIL	Fail
FABS	Fail: absent from examination
FCOM	Fail on components
FDEF	Fail: Deferred examination not granted
FEST	Fail with exemption from some topic (s)
FMAR	Fail: may repeat course/topic
FMNR	Fail: may not repeat course/topic
FMSR	Fail: must repeat course/topic
FNQL	Fail: did not qualify to write
FPAS	Pass no credit
FPEX	Fail with partial exemption
FREX	Fail (re-examination)
FSUB	Fail on subminimum
FSWH	Fail: supplementary withdrawn
WAIT	Decision pending / result outstanding
WCSU	Suspended credit
WDEF	Deferred examination granted
WFUG	Fail on subminimum: supplementary examination granted
WINC	Course / topic incomplete
WIN4	Pending: course completed in final year
WONE	No examination: observer only
WREX	Supplementary examination granted: written in succeeding year
WRE1	Granted re-examination
WRE2	Granted additional test
WRE3	Granted additional test in terms of Engineering rules
WSP1	Supplementary examination granted
WSP2	Supplementary examination to be marked upon successful completion of deferred examination(s)
WSP4	Fail on subminimum: supplementary examination granted
CRDL	Credit lapsed
DNOW	New rules: course no longer required for degree
WALT	Requirements will be completed next year



REPUBLIC OF SOUTH AFRICA

National Senior Certificate

Awarded to

DEVIN BRENDAN AZZIE

Identity number 9601095123085

Subject	%	Achievement level
English Home Language	83	7
Afrikaans First Additional Language	79	6
Mathematics	96	7
Life Orientation	85	7
Accounting	79	6
Life Sciences	80	7
Physical Sciences	81	7
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+ Mathematics: probability, data handling & geometry	95	-
*****	***	*

This candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to bachelor's degree, diploma or higher certificate study as gazetted for admission to higher education, subject to the admission requirements of the higher education institution concerned.

With effect from December 2013

M. S. LAKOMETS

Chief Executive Officer

This certificate is issued without alterations or erasure of any kind

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UMALUSI



Council for Quality Assurance in
General and Further Education and Training
South Africa

4429326

Advanced Programme Mathematics

This is to certify that
DEVIN BRENDAN AZZIE
131027020024

obtained the following result in the Advanced Programme Mathematics examination administered by the IEB in November 2013

Percentage	Rating Level	Optional Module
81%	7	Statistics

Advanced Programme Mathematics is an optional subject in addition to the requirements of the NSC Core Mathematics and Mathematics Paper 3. It is examined externally at the end of Grade 12 by the IEB and quality assured by Umalusi. This course consists of two compulsory modules:

Differential and Integral Calculus

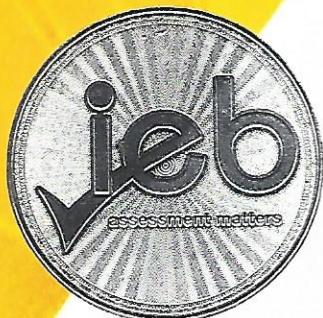
Algebra

And one optional module selected from:

Statistics

Finance and Modelling

Matrices and Graph Theory



Chief Executive Officer

December 2013

