

Darryn Anton Jordan

Curriculum Vitae

Rondebosch, Cape Town
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✉ darrynjordan@icloud.com
📄 darrynjordan.github.io



Formal Education

- 2016 – Present **Master of Science in Engineering in Radar and Electronic Defence**,
University of Cape Town, Intending to submit in July 2017.
- 2012 – 2015 **Bachelor of Science in Engineering in Mechatronics**,
University of Cape Town, Graduated with honours.
- 2007 – 2011 **National Senior Certificate**,
Hudson Park High School, Graduated with honours.

Masters Project

- Title *MiloSAR: A Low-Cost FMCW SAR*
- Supervisor Prof. M. Inggs (UCT)
- Description The development of hardware and software for a prototype FMCW SAR with applications at precision agriculture.

Undergraduate Project

- Title *Real-Time Pulse Compression and Doppler Processing*
- Supervisors Prof. Daniel O'Hagan (UCT) | Prof. Michael Inggs (UCT)
- Description Assessment of GPU and CPU implementations of pulse compression and Doppler processing algorithms for an experimental, multistatic radar.

Vacation Work Experience

- Nov – Dec, 2015 **NeXtRAD & MiloSAR**, *Remote Radar Sensing Group*, UCT.
As an extension of my undergrad project, development continued on a real-time pulse compressor and Doppler processor for NeXtRAD integration. Furthermore, a basic understanding of FMCW radar was gained and its application for SAR imaging.
- June – July, 2015 **NeXtRAD Audio/Visual Systems**, *Remote Radar Sensing Group*, UCT.
This experience provided exposure to the Boost C++ libraries, allowing socket level networking to be integrated into the programs developed during the June/July vacation work in 2014.
- June – July, 2014 **NeXtRAD Audio/Visual Systems**, *Remote Radar Sensing Group*, UCT.
The UCT RRSRG requested audio and visual recording programs to be developed for their NeXtRAD project. Remote recording of video from an IP camera and audio from Asterisk conference calls was required.

Achievements

- 2016 Obtained first-class passes for all radar masters courses.
- 2015 Achieved final-year project mark of 86%.
- 2014 Intern in the Remote Radar Sensing Group, UCT.
- 2013 Member of the Golden Key International Honour Society.
- 2012 UCT Dean's Merit List.
- 2011 Academic Honours, Hudson Park High School.
- 2010 Academic Colours, Hudson Park High School.

Positions of Responsibility

- 2017 Part-Time English Teacher in South Korea.
- 2016 - Present Electronics Tutor for Club Electron.
- 2016 Lecturers Assistant for the third-year, Signals and Systems II course at UCT.
- 2011 First Team Tennis Captain, Hudson Park High School.

Technical Skills

- CPU Development C++, C, Python, Scilab, Octave, Matlab
- GPU Development CUDA
- Hardware Red Pitaya, Jetson TK1, STM32F0, Freescale GT16A, Arduino
- OS Linux, Windows
- Other Git, LaTeX

Interests

- Road Cycling Enthusiastic Road Cyclist.
- Running Social Runner.
- Cooking Passionate Foodie.
- Gaming Casual Gamer.

Attended Conferences

- 2016 Attended the 2016 PRASA-RobMech Conference in Stellenbosch.
- 2015 Attended and assisted at the 2015 IEEE Radar Conference in Johannesburg.
- 2014 Attended the 2014 International Federation of Automatic Control (IFAC) World Congress in Cape Town.

References

- Dr. Michael Inggs Professor in Radar, University of Cape Town
(mikings@gmail.com)
- Dr. Daniel O'Hagan Associate Professor in Radar, University of Cape Town
(daniel.ohagan@uct.ac.za)
- Dr. Craig Tong Digital Back-end Engineer, Square Kilometre Array
(craigtong04@gmail.com)



Darryn Jordan

2016 > Masters > University of Cape Town

▼ **Class Grades - 2016**

Class	Description	Units	Grading	Grade	Grade Points
EEE 5103Z	Dissertation Preparation		Pass/Not Pass	PA	
EEE 5108Z	Advanced Engineering Maths	20.00	Graded	77	1540.000
EEE 5111Z	High Resolution & Imaging Radar	20.00	Graded	92	1840.000
EEE 5119Z	Intro To Radar Systems	20.00	Graded	85	1700.000

▼ **Term Statistics - 2016**

	From Enrollment	Cumulative Total
Units Toward GPA:		
Taken	60.000	60.000
Passed	60.000	60.000
Units Not for GPA:		
Taken		
Passed		
GPA Calculation		
Total Grade Points	5080.000	5080.000
/ Units Taken Toward GPA	60.000	60.000
= GPA	84.670	84.670

Academic Standing Academically eligible to continue



UNIVERSITY OF CAPE TOWN

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OFFICIAL TRANSCRIPT

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Statement of Academic Record

Name : Jordan, Darryn Anton

Campus ID : JRDDAR001

Birthdate : 1993-11-07

Student Records Office
University of Cape Town
Private Bag X3
Rondebosch
7701
South Africa

Telephone: (021) 650-3595
Fax : (021) 650-5714

- - - - Beginning of Undergraduate Record - - - - 2012

Programme: BSc Eng in Mechatronics

Plan : Mechatronics Specialisation

Course	Description	Credits Taken	Credits Earned	Result
EEE 1004W	Engineering I	32	32	81 1
CSC 1017F	Programming for Engineers	16	16	85 1
MAM 1017F	Mathematics 1017 for Engineers	16	16	71 2+
MEC 1003F	Engineering Drawing	8	8	93 1
PHY 1012F	Physics A for Engineers	16	16	65 2-
AXL 1200S	Africa: Culture, ID & Glblsn	8	8	67 2-
MAM 1018S	Mathematics 1018 for Engineers	16	16	67 2-
MAM 1042S	Engineering Statics	16	16	74 2+
PHY 1013S	Physics B for Engineers	16	16	69 2-

Dean's Merit List

Academically eligible to continue

2013

Programme: BSc Eng in Mechatronics

Plan : Mechatronics Specialisation

Course	Description	Credits Taken	Credits Earned	Result
EEE 1000X	Practical Training	0	0	PA PA
EEE 2038W	Fundamentals of Electrical Eng	24	24	69 2-
EEE 2039W	Fundamentals of Electronic Eng	36	36	70 2+
EEE 2035F	Signals & Systems I	12	12	77 1
MAM 2083F	Vector Calculus for Engineers	16	16	54 3
MEC 2043F	Electrical & Mech Materials	12	12	66 2-
EEE 2036S	Probability & Stat Dsgn in Eng	12	12	80 1
MAM 2084S	Linear Alg & De for Engineers	16	16	70 2+
MEC 2022S	Thermofluids I	16	0	UF SM

Academically eligible to continue

2014

Programme: BSc Eng in Mechatronics

Plan : Mechatronics Specialisation



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Course	Description	Credits Taken	Credits Earned	Result
EEE 3017W	Digital Electronics	16	16	77 1
EEE 3061W	Mechatronics Design I	12	12	57 3
EEE 3069W	Control Engineering	20	20	57 3
EEE 3068F	Electronic Circuits	12	12	85 1
EEE 3086F	Signals & Systems II	12	12	56 3
MEC 2023F	Dynamics I	16	16	57 3
MEC 2025F	Mechanics of Solids I	12	12	58 3
EEE 3031S	Energy Utilization	10	10	57 3
EEE 3073S	Professional Communication	12	12	67 2-
MEC 2026S	Project Management	8	8	60 2-
MEC 3031S	Dynamics II	16	16	78 1
MEC 3035S	Comp Integrated Mfg & Robotics	8	8	74 2+

Academically eligible to continue

2015

Programme: BSc Eng in Mechatronics

Plan : Mechatronics Specialisation

Course	Description	Credits Taken	Credits Earned	Result
EEE 3000X	Practical Training	0	0	PA PA
EEE 4001F	Digital Signal Processing	20	20	82 1
EEE 4006F	Professional Communication	8	8	74 2+
EEE 4036A	Electrical Engineering Design	8	8	85 1
EEE 4051F	New Venture Planning	8	8	63 2-
EEE 4093F	Process Control & Instrumenta	20	20	64 2-
EEE 4099F	Elec Machines & Power Electron	20	20	60 2-
EEE 4022S	Research Project	40	40	86 1
MEC 2022S	Thermofluids I	16	16	82 1
MEC 4022C	Industrial Law	8	8	72 2+
MEC 4063C	Industrial Ecology	8	8	68 2-

Qualifies for award of degree/diploma

Degree : Bachelor of Science in Engineering in Mechatronics
Confer Date : 2015-12-23
Degree Honours: with honours
Plan : Mechatronics



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The conduct of the Student was satisfactory.

- - - - - End of Transcript - - - - -

Registrar



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STATEMENT OF RESULTS / STAAT VAN UITSLAE
NATIONAL SENIOR CERTIFICATE / NASIONALE SENIOR SERTIFIKAAT

NOVEMBER 2011

DARRYN ANTON JORDAN

EXAMINATION NUMBER / EKSAMENNUMMER 24954922

DATE OF BIRTH / GEBOORTEDATUM 19931107

CENTRE / SENTRUM (4181021) HUDSON PARK HIGH SCHOOL

(402) CENTRAL EASTERN CAPE DEPARTMENT OF EDUCATION

Code Kode	Subjects Vakke	Percentage Persentasie	Achievement level Prestasievlak
ENGHL	English Home Language	76	6
AFRFA	Afrikaans First Additional Language	76	6
MATH	Mathematics	90	7
LIFE	Life Orientation	90	7
INFT	Information Technology	94	7
LFSC	Life Sciences	88	7
PHSC	Physical Sciences	91	7
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXX
MAT3	Mathematics: probability; data handling	83	+
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXX
The candidate qualifies for the National Senior Certificate and has met the minimum requirements for admission to bachelors' degree, diploma or higher certificate study as gazetted for admission to higher education.			

+ An extra paper not included in the Mathematics mark

DATE / DATUM 2011/12/30

Head of Department : Education
 Departementshoof : Onderwys

Achievement Level Prestasievlak	Achievement Description Prestasiebeskrywing	Marks % Punte %
7	Outstanding achievement / Uitmuntende prestasie	80 - 100
6	Meritorious achievement / Verdienstelike prestasie	70 - 79
5	Substantial achievement / Beduidende prestasie	60 - 69
4	Adequate achievement / Voldoende prestasie	50 - 59
3	Moderate achievement / Matige prestasie	40 - 49
2	Elementary achievement / Basiese prestasie	30 - 39
1	Not achieved / Ontoereikende prestasie	0 - 29

A NATIONAL SENIOR CERTIFICATE WILL BE FORWARDED TO THE SCHOOL.

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