



# **UNISEC-SAR Members**



SU NUST CPUT UCT

Members

Angola NOSA

NMU

BIUST

### Founding

- Stellenbosch University (SU)
  Namibian University of Science and Technology (NUST)
- Cape Peninsula University of Technology (CPUT)
- Angola (Angolan National Office for Space Affairs)

### Joined

- University of Cape Town (UCT)
- Nelson Mandela University (NMU) -2022
- NEW Botswana International University of Science & Technology (BIUST) - 2023









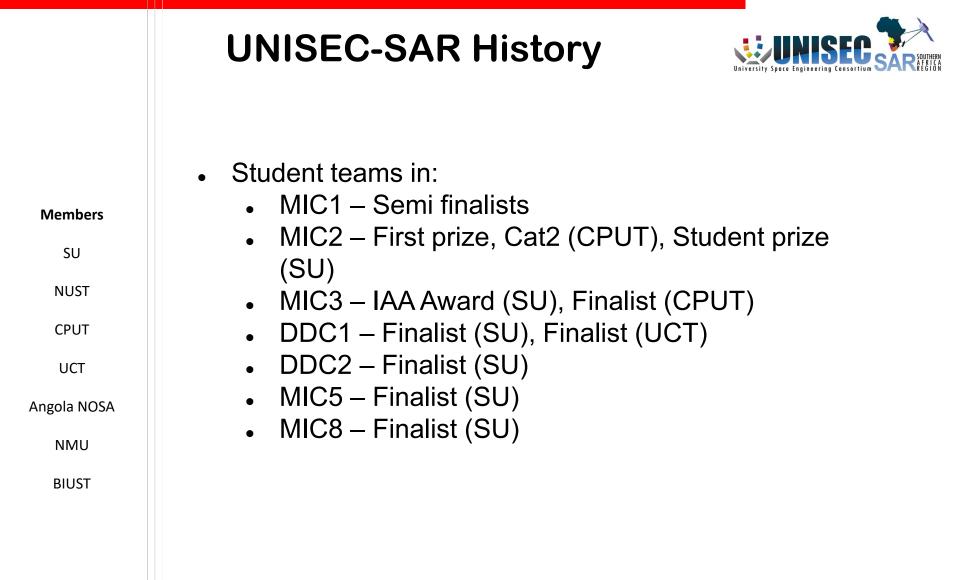


# **UNISEC-SAR History**

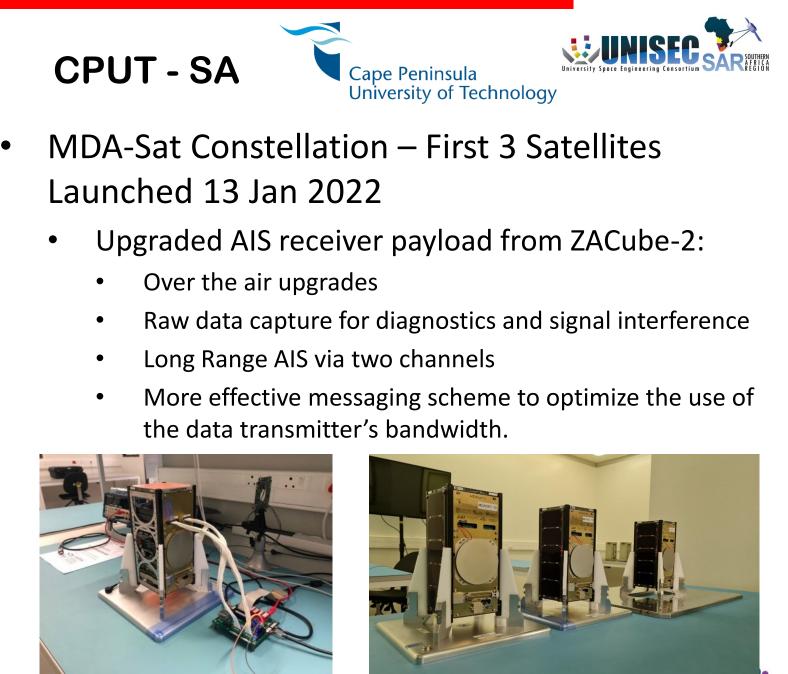


	<ul> <li>Local Chapter UNISEC-SAR founded as one of 12 original UNISEC-Global members at 2<sup>nd</sup> Global Meeting</li> </ul>		
Members	in 2014		
SU	<ul> <li>Founding members: NUST (Namibia), NOSA (Angola),</li> </ul>		
	SU (South Africa), CPUT (South Africa)		
NUST	<ul> <li>UNIGLO Meetings – All</li> </ul>		
CPUT	CLTP		
UCT	<ul> <li>3 – Smita Francis – Namibia</li> </ul>		
Angola NOSA	<ul> <li>4 – Zolana Joao – Angola</li> </ul>		
	<ul> <li>6 – Ivandro Rodrigues – Angola</li> </ul>		
NMU	<ul> <li>11 – Arno Barnard – South Africa</li> </ul>		
BIUST	<ul> <li>12 – Rut Shiwambi</li> </ul>		
	<ul> <li>HeptaSat</li> <li>UN Workshop – SU 2017</li> </ul>		
	• SU 2023		
	<ul> <li>Nano-Sat Symposium and UNISEC Global Meeting – SU 2024</li> </ul>		











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Members

SU

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Angola NOSA

NMU



Science & Engineering

oace

Applications

Exploration

Policy &

Regulation

International

Cooperation

**Business &** 

Management

# UCT - SA



Offers MPhil in Space Studies

#### Members

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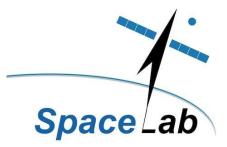
Angola NOSA

NMU

BIUST

- Focus not only Satellite Engineering but also on regulation, space law aspects and orbital debris
- Recent research towards Synthetic Aperture Radar (SAR) for Small Satellites









# Angola - NOSA

 Zolana on LinkedIn: "After four years of hard work and setbacks, today, October 12, we successfully launched satellite ANGOSAT-2. The Solar panel rotated to the sun, and we fully control ANGOSAT-2. All satellite subsystems are nominal, and we will keep you posted"







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Members

SU

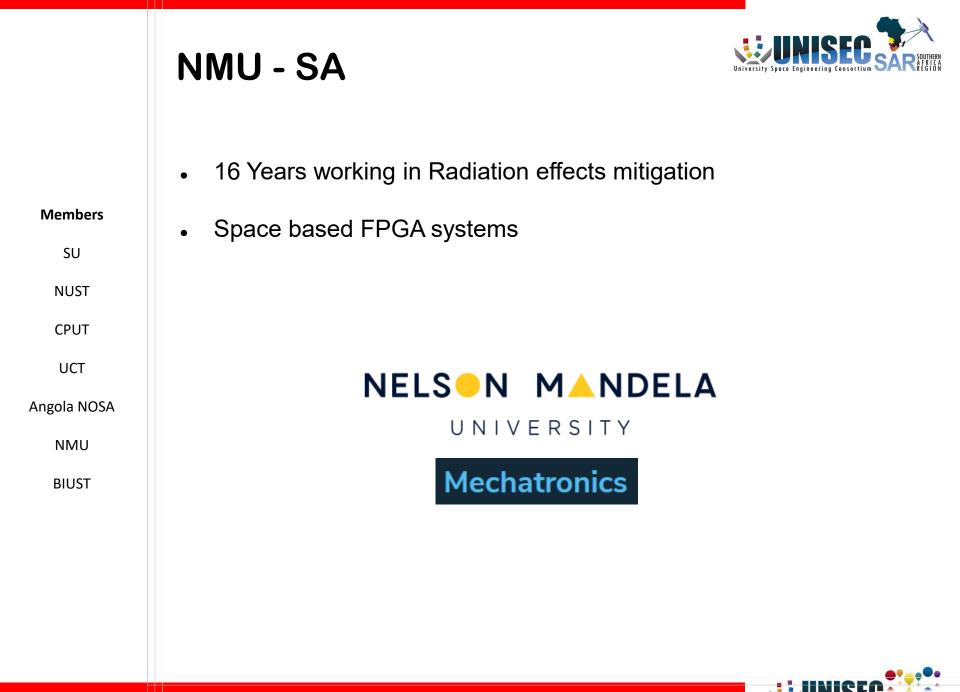
NUST

CPUT

UCT

Angola NOSA

NMU



University Space Engineering Consortium





### SU - SA

• 30 Years of satellite development



Stellenbosch UNIVERSITY IYUNIVESITHI UNIVERSITEIT

• Offers MEng (Research), PhD in Satellite systems

#### Members

SU

NUST

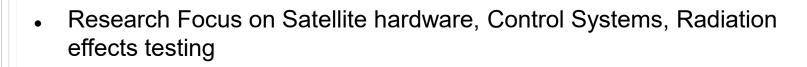
CPUT

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Graduates are satellite engineers in most South African space companies







Members

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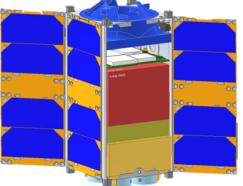
CPUT

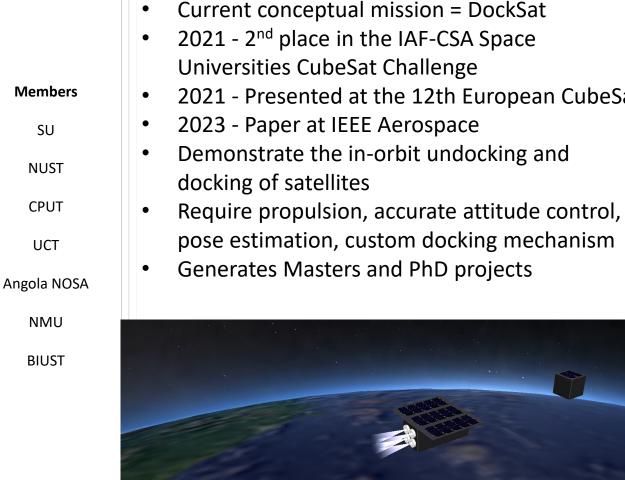
UCT

NMU

BIUST

t	Stellenbosch UNIVERSITY IYUNIVESITHI UNIVERSITEIT
n CubeSat	









## SU - SA

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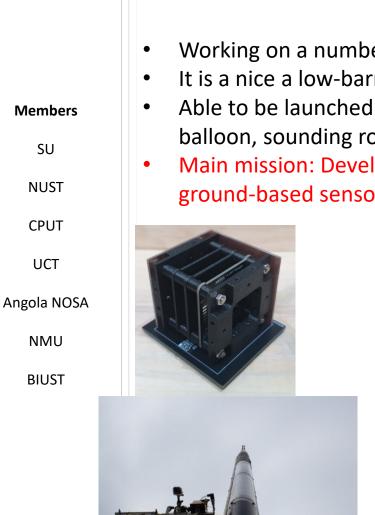
UCT

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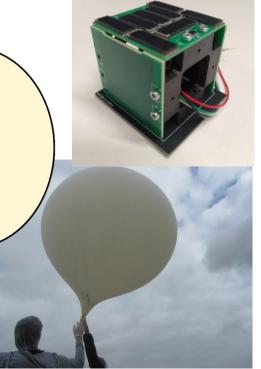
Stellenbosch



- Working on a number of PocketQube satellites
- It is a nice a low-barrier to entry target
- Able to be launched and deployed in many ways including high-altitude balloon, sounding rocket or orbital launch
- Main mission: Develop a satellite-based relay station for IOT network for ground-based sensors







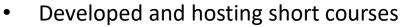


# SU - SA



University Space Engineering Consortium

- Members SU NUST CPUT UCT Angola NOSA NMU
  - BIUST



Focuses on satellite mission design



- Contract experts from industry to assist in presenting topics
- In the past three years we have trained 90 local satellite engineering professionals





University Space Engineering Consortium

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### Micro/Nano/Pico Satellite: Innovations in Architecture, **Technologies and Education**



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## Thank you



## **UNISEC-SAR POCs**



Willem Jordaan South Africa









Zolana Joao Angola



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