



HRDC Summit – Work and Learning



Problem (Challenge ?)

- University of Technology graduates are often untrained, inexperienced and are not ready for the challenges and demands of the workplace.
 - Non-Technical part, how to act in the work place
 - Technical part, obtaining and mastering skills to be able to do the job

Partnership/ Collaboration – Role players

- Academic perspective University of Johannesburg
 - Assisting with the funding and setup
 - Deal with Theory part S1- S4 and provide students
- Academic perspective UNISA
 - Deal with Theory part S1- S4 and provide students
- Academic perspective Universities of Technology - Central, Durban, Mangosuthu, Tshwane, Vaal
 - Deal with Theory part S1- S4 and provide students
- MerSETA as sponsor(funder) of beneficiaries(students)

How to improve the system

- Create more non-captive workshop facilities like NECSA and Resolution Circle to expose students to Work place learning
- Expand with more workshop facilities in other locations e.g. KZN, Northwest, Mpumalanga
- With the skills obtained, consider entrepreneurship as alternative to employment e.g. Arduino(IoT) – Rapid Prototyping, Cell Phone repair, Domestic Wiring
- Address the needs of hundreds if not thousands of students having completed Theory part but not their Practical part with Part Time programme

Successes

- Created facilities in Jhb to host up to 500 interns p.a.
- Assisted over 1800 students from 7x universities to complete the necessary requirements to obtain their National Engineering diplomas to become Technicians



Breakdown of x1873 3rd year students

- Majority 35% from UJ, 13% from VUT and 11% from TUT.
- CUT, DUT, MUT, UNISA make up the balance of 40%

Year	Total WIL			Institutional						
	Total	P1	P2	(UJ)	CUT	DUT	MUT	(TUT)	UNISA	(VUT)
2012	0	0	0							
2013	60	30	30	60						
2014	70	38	32	27				18	2	23
2015	325	210	115	211	19	1		37	1	56
2016	424	220	204	191	18	4	1	52		68
2017	464	258	206	179	9	7	52	103	1	101
2018	530	330	200							
Totals	(1873)	1086	787	(668)	46	12	53	(210)	4	(248)

3rd year students working on real world projects



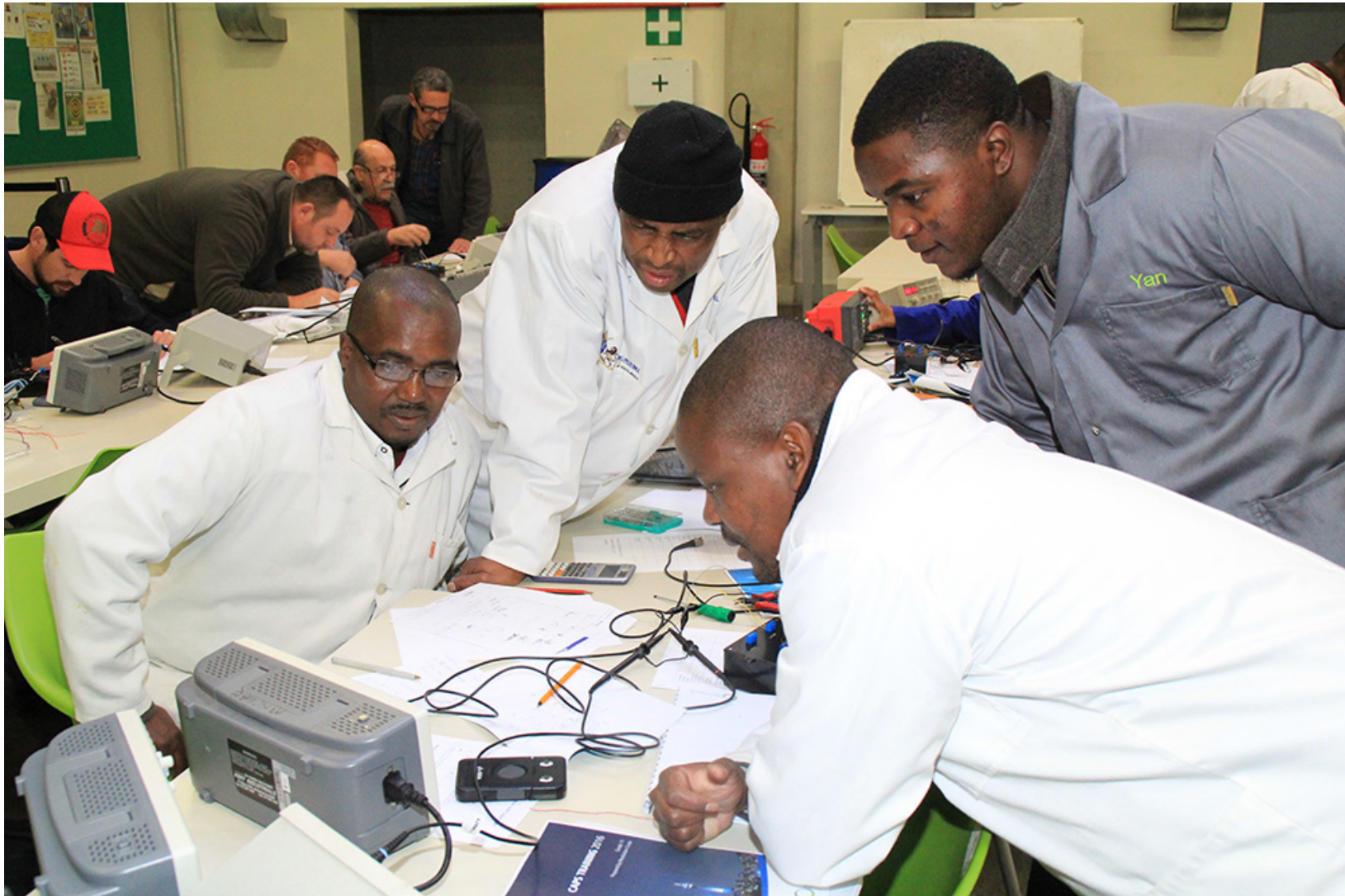
3rd year students working on real world projects



Graduate (B.Sc, B.Tech, B.Eng) Interns 2017



Gauteng Department of Education - TTT



Take away

- Meet the need for Engineering- and Technology students
- Replicate what has been achieved already
- Collaborate(That's way I am here)
- Consider entrepreneurship as alternative to employment