63 7th Avenue
Boston Estate
Bellville/Cape Town, South Africa 7530
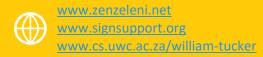
Associate Professor
Department of Computer Science
Faculty of Natural Sciences
University of the Western Cape
Bellville/Cape Town, South Africa 7535

+27 82 494 8884

btucker@uwc.ac.za
bulltucker@gmail.com

www.zenzeleni.net
www.signsupport.org
www.cs.uwc.ac.za/william-tucker

WHAT I WOULD LIKE TO DO

- Mentor today's Youth as tomorrow's Leaders in order to:
- Figure out how to stack SignSupport-styled info delivery over Zenzeleni-styled community networks; in local languages for multiple scenarios, e.g. covid and food security,
- Learn how to enable end-users to program those apps and networks in their own local language, e.g. isiXhosa and Afrikaans.
- Rewrite my PhD thesis as a (text)book on ICT4D long-term case studies based on what we've learnt with Zenzeleni and SignSupport over the last 20 years.

BILL TUCKER

WHO I AM AND WHAT I AM GOOD AT

- Expertise: Software engineering, telecommunications, assistive technology, human computer interaction & ethics
- Teaching and learning: Authentic, blended, flipped & scaffolded
- Research: ICT for development (ICT4D)
- Community engagement: Zenzeleni & SignSupport
- Administration: University and external committees & chairing
- Technology transfer: research-driven spin-offs

WHAT I AM PROUD OF

Experience
- One of original 7 in dot.com boom startup that grew to 150 people
- UWC career: TA->L->SL->AP (23 years at UWC)
- Teaching and programming for over 40 years

Teaching & learning
- Faculty Teaching Excellence Award, Science Faculty, 2018
- No final exams since 2002! Continuous assessment only, mostly online, which has now found acceptance after #FMF and covid

Research
- NRF rating C1
- Google h-index of 18 with 120+ peer reviewed publications;10 in accredited journals; and the rest mostly accredited proceedings
- R24 million research funding since 2002; last 3 year average: ~R2M
- 88 postgrad completions: 5 PhD, 25 MSc and 58 Honours
- 3 more PhDs and 1 more MSc completing in 2020
- Institutional Research Excellence awards in 2018 and 2020

Community engagement
- Institutional Community Engagement Excellence award 2019
- Zenzeleni Networks: rural, solar-powered, community owned ISPs
- BBC documentary on Zenzeleni : Internet access in Africa 2019
- Zenzeleni semi-finalist for Mozilla Foundation competition, 2017
- SignSupport: mobile app suite and contact centre for Deaf people
- SignSupport SABC video in 2017
- Long service award from Deaf Community of Cape Town, 2012

Administration
- Chaired ACM DEV 2013 in Cape Town
- Associate Editor for ITID journal
- Faculty Higher Degrees and Teaching and Learning committees
- Institutional ICT Steering Committee

Technology transfer
- Best Innovation with Social Impact, TIA Innovation Bridge, 2017
- R2 million * 2 from TIA recently for Zenzeleni implementation
- TIA Seed Funding for both Zenzeleni and SignSupport
- Zenzeleni spin-offs: the NPC umbrella and two cooperatives