## **Derek Kozel**

Education	Cardiff UniversityAnticipated 2023Ph.D. in Electrical EngineeringAnticipated 2023Advanced load modulated power amplifiers for wireless telecom applicationsAnticipated 2023		
	Carnegie Mellon University M.S. in Electrical and Computer Engineering B.S. in Electrical and Computer Engineering Additional Major in Engineering and Public Policy	Ma Decembe Decembe	y 2014 er 2012 er 2012
Professional Positions	GNU Radio President Technical Lead	October 2020 - I 2017 - I	Present Present
	SETI InstituteOctober 2020 - PresentPrincipal Investigator responsible for the GNU Radio partnershipOctober 2020 - Present		
	<ul> <li>Ettus Research (National Instruments) Santa Clara, CA/C Lead software development and customer interaction of Implemented, tested, and maintained the driver for the T receiver covering 10 MHz to 6 GHz Ran FPGA training courses at multiple conferences to gr</li> <li>Range Networks (Independent Consultant) San Francisco, O Finalized (Altium), manufactured, and debugged a softw Designed and implemented the Linux driver (C++) and e Improved the FPGA signal processing pipeline and adde Performed RF characterization and improved the analog</li> </ul>	ardiff, UK January 2015 – September a phased array radar system. winRX, a two-channel super heterodyn roups of 20-50 attendees CA January 2013 - M rare defined 3G cellular base station rad embedded ARM firmware (C/ASM) d self test architecture (Xilinx, Verilog) filter circuitry	т 2018 е ау 2014 lio )
Grants	GNU Radio Usability Enhancements	ARDC, \$263K, 1.5 years	2022
Papers	Evolution of Digital Modulation Schemes for Radio Systems	GECCO (Canada)	2014
Talks	Digital Predistortion - Implementation and Use Physics, Math, and SDR Hardware Accelerated Software Defined Radio Introduction to Synchronization Optimization of Digital Modulation Schemes using Evolutionary Algorithms Panel: SDR – Is Fully 'Software Defined' the Future of Wireless? A Short History of Hardware Abuse SDR and GNU Radio Companion for Amateur Radio	<ul> <li>FOSDEM (Belgium)</li> <li>FOSDEM (Belgium)</li> <li>SDR Academy (Germany)</li> <li>GNU Radio Conference</li> <li>GNU Radio Conference</li> <li>Wireless Communications Alliance</li> <li>GPU Technology Conference</li> <li>Pacificon</li> </ul>	2019 2018 2017 2016 2015 2015 2014 2013
Volunteer Experience	GNU Radio Conference Organizer2017 - PresentLead organizer for the 2018, 2020, and 2021 conferences2017 - PresentAssisted with the creation and running of the Technical Program for 20172017 - Present62+ talks over five days, 350+ attendees2017 - Present		
	Radio Society of Great Britain, Technical Forum Member Small committee providing engineering expertise to the Reviewed technical publications for the national periodic	2018 society cal	- 2021