## Evan Widloski

			$\lor \lor \sim$	~~
evanw.org <b>Education</b>	evan@evanw.org	github.com/evidlo	Callsign: KD9FMW	
University of Illinois Urbana-Champaign				2018-present
PhD student, DSP and remote se	nsing, Computational optics. Adv	vised by Farzad Kamalabadi		
Purdue University				2013-2017
BSEE Electrical Engineering, BS N	1athematics			
Experience				
NASA Milli-Arcsecond Imaging wi	th Smallsat Enabled Super Re	solution (MAS) - research assistant		2018-present
Built computational framework f	or simulating forward optical sys	stem with photon sieve.		
NASA VIrtual Super-resolution Optics with Reconfigurable Swarms (VISORS) - research assistant				2019-present
Developed registration algorithm	for aligning and recovering sma	llsat science data under drift and extrem	ne noise.	
UIUC Senior Design - teaching assistant				2018-present
Technical advisor for senior level	capstone course in design			
Spooky Action - Cofounder				2018-present
Developed high powered tether v	vith integrated data downlink fo	r multirotor capable of multi-day flight		
Texas Instruments - Field Applications Engineer				2017-2018
Implemented multitap FIR filter o	on 8051 core micros. Stability ana	alysis of buck/boost converters		
<b>Qualcomm</b> - CoreBSP Security Eng	ineer			2015
Headed security SDK project to e	mulate mobile biometric hardwa	are		
Technical Skills				
Engineering		Computing		
Embedded signal processing, tran	nsmission lines - 2 years	Python, Bash, JS and friends -	5+ years	
AVR Microcontrollers - 5 years		Octave, LaTeX, C - 3 years		
KiCAD – 6 years				
Selected Classwork				
ECE438 - Signal Processing and Sys ECE558 - Digital Imaging ECE461 - Digital Communication ECE561 - Computer Vision	stems	ECE566 - Computational Inferer MA514 - Numerical Analysis ECE513 - Vectorspace Linear alg ECE534 - Random Processes		
Achievements and Award	<u>s</u>			
Purdue University Dean's List Rappaport Wireless Communication RCA Zworykin Scholarship	n Scholarship			2015, 2016, 2017 2016 2014

## Extracurricular

Purdue Orbital Team - Electrical lead	2016-2017
Designed mesh node for high-altitude balloons with custom APRS modem based on AVR	
Purdue IEEE ROV Team - Electrical lead	2013-2015
Designed compact, addressable motor controller for submersible vehicle. Built powerline transmission capable of delivering with bidirectional data stream.	ng 2 NTSC video feeds
Purdue Linux Users Group - President	2013-2017
Organized meetings and lectured on topics such a Python, regexes, init systems, Buildroot, networking.	
Publications	
Optimal Measurement Configuration in Computational Diffractive Imaging - IEEE ICIP (pending review)	2020
Presentations	
A Tour of KiCAD - UIUC Senior Design	2020
Introduction to Postscript (the printer language) - UIUC Linux Users Group	2018
Electrical Series - Board Layouts in Eagle - Purdue EPCS202	2017
Electrical Series - Schematics in Eagle - Purdue EPCS201	2016
Becoming a Vim Power User - Purdue Linux Users Group	2016
Git Version Control - Purdue Linux Users Group	2015
Grokking Bash - Purdue Linux Users Group	2015
Regular Expressions Primer - Purdue Linux Users Group	
Linux File Permission - Purdue Linux Users Group	2014