Travis Ziegler (2 tjz@mit.edu (2 on the web

☐ tjz@mit.edu ☐ on the web ☐ on github

Education	Massachussets Institue of Technology Bachelor of Electrical Engineering & Computer Science, 4.7 GPA Master of Engineering in EECS, 5.0 GPA	Jun 2023 Jun 2023
Selected Skills	Programming C/C++, assembly, Python, SysVerilog, bash/Linux, Java, C#, javascript/web, MATLAB firmware dev for STM32, PSoC, ESP32, x86 UEFI, FPGA, PCB design with KiCAD TensorFlow, PyTorch, Apps (iOS/Android), Flutter, React, Photoshop, Illustrator, SolidWorks	
Selected Projects	☐ GameMan Hardware re-implementation of the original GameBoy Cycle accurate Z80 CPU, RAM, and audio processing unit in SysVerilog to emulate 1980's GameBoy games with sound and VGA output on an FPGA.	Aug '22 Dec '22
	☐ VGA-WIFI Streamer A realtime embedded streaming solution Hardware to mirror a computer screen on a VGA monitor wirelessly using ESP32+PSoc6 MCUs. Custom JPEG-like compression and DSP optimizations led to a 30 fps stream.	Mar '21 May '21
	[2] MIT-XSS Stealing MIT credentials for fun, not profit Exploit in MIT's online platform to steal two-factor authenticated DUO sessions.	Jun '20 Aug '20
	☐ iUSBAudio A HAL MacOS audio driver + software package Driver to route system audio to an Apple device for playback over USB. For hackintosh.	Dec '20 Jan '21
	☐ Pinball XP Space Cadet pinball on GooglePlay 1:1 Android port of Windows XP's poplular pinball game with native emulation.	Nov '19 Mar '20
	☐ NotifyWho A popular Android app on GooglePlay WhatsApp extension to assign custom sounds and vibration patterns to specific contacts.	Apr '19 Jul '19
	☐ FlappyOS An x86 assembly implementation Bootable Flappybird game for x86 using BIOS interrupts for graphics and IO.	Aug '17 Nov '17
Selected Work	MIT-IBM Watson AI Lab Cambridge, MA Internship for master's degree thesis Gained industry experience in the AI field. Built embedded systems, optimized models, automation pipelines, and datasets for anomaly detection and classification tasks on edge.	Jun '22 23
	MIT ORC Research Group Remote Remote Webmaster and maintainer of COVIDAnalytics.io Implementd CI + web deployment system. Updated, fixed, maintained, added to site. The site runs ML models to visualize COVID-19 case predictions and other COVID data.	Jun '20 Jun '22
	LIQID Investment Berlin Financial Analyst Intern Collaboratively programmed automation systems for customer financial reporting. Analyzed and processed customer financial data to develop visuals, slides, and charts.	Jun '18 Jul '18
Selected Clubs	CPL Club Texas Founder and Maintainer Led sessions for high schoolers at biweekly Computer, Programming, and Linux meetings.	Aug '17 May '19
	Jiu-Jitsu @ MIT Cambridge, MA Webmaster and President Maintained and updated Jiu-Jitsu's website. As president, tended to club duties such as club/member registration, supply acquisition, organization meetings, etc.	Dec '19 May '22
Likes	train martial arts and boxing. I like breaking records in the gym, playing basketball, drawing, reading, and barbequing with the guys. I dislike phony people and value honesty more than other traits.	