

James McKay

is a **SW/HW tech stack generalist**,

Extroverted parent, relentless tinkerer, and an owner of one too many hobbies. Their previous positions are:

Orolia Defense Services : *FPGA Engineer* (April 2023 to Present)

- + Responsible for the development of FPGA and embedded systems for Position, Navigation, and Timing (PNT)

Skills: VHDL, Intel, Altera, Quartus, SPI/UART/I2C, Timing, GPS/GNSS

Intel Corporation : *Software Application Engineer* (May 2018 to Feb 2023)

- + High touch 3rd party client optimizations and performance analysis (Microsoft, Amazon, Autodesk, SideFX)
- + Managed/owned **Power Gadget** and designed a complete overhaul of the software
- + Developed value prop analysis on both unreleased internal projects and **Optane Memory**

Skills: C++, C#, Python, uArch, Optimization, Tools, VTune, WPA/WPR/xperf, SEP/EMON, TypePerf, CAD

Coding With Kids : *Instructor* (Dec 2017 to May 2018)

- + Educated the next generation of Engineers on coding concepts
- + Created an advanced lunar lander software suite with simplified controls **entirely in Scratch**

Skills: Python, Scratch, Patience, Boxless thinking, Concept distillation

Hyperloop Transportation Technologies : *HTT Engineering Specialist* (Feb 2016 to Jan 2018)

- + Worked with an international team to deliver a custom human resources management (HRM) tool
- + Trusted to validate security controls and infrastructure

Skills: Open-source, Web technologies, PHP, HTML, CSS, Object-oriented

Digital Domain/ IM360 : *FPGA Design Engineer* (Aug 2016 to May 2017)

- + Built blocks for integration into real time 360° motion video cameras (4k x 7, eth interface)
- + Conducted research to assist PM in selecting the right FPGA
- + Developed gamma correction independently, assisted with other image processing
- + Implemented cosimulation to reduce design, implementation, and execution time for workflow

Skills: FPGA, VHDL + Xilinx + Vivado, DSP, Floorplanning, cosimulation, SPI/UART/I2C

US Army : *Cross-Trained: Intelligence Analyst and Satellite Technician* (Apr 2008 to Mar 2011)

- + Focused on socio-political, international, and military dynamic of NE Asia at strategic leadership level
- + Maintained, authorized, and distributed usage of over 70 SATCOM circuits from 256kbps to 4096kbps

Skills: SATCOM, JMICS, Trojan, All-Source Analysis, International Politics, IT, Administration, Strategy

Education and Links

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BAS Multidisciplinary Studies

Rochester Institute of Technology
2009 - 2016



<https://www.linkedin.com/in/tamjam/>



<https://github.com/teejaytiger/>



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