

Michael Edward Davis

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U.S. Citizen • Huntsville, Alabama • Flexible Timezone

Lead Developer experienced in security, software development, and operations.

I combine imagination, hands-on engineering expertise, and self-starting initiative to solve complex challenges.

TOP SKILLS

Software Development, Research, Technology Integration, Modeling, Strategy Formation, Relationship Building, Management of Complex Technical Projects, Creative & Critical Thought, Quick Learning

AREAS OF EXPERTISE

Modeling (MATLAB), Crypto/blockchain, GPUs, Virtual Machines, Hypervisors, Cybersecurity, Languages (Python, Java, Bash, Powershell, Cisco iOS), Tools (Linux, Git, SSH), Continuous Integration, Quality by Design, Root Cause Analysis, Process Development

ACCOMPLISHMENTS

Software Development

- Wrote Best-In-Class software for the management of source code saving \$100,000 per year per project.
- Developed a custom continuous integration and development system to produce military products.
- Wrote an experimental financial program to analyze funds data and perform a Post Modern Portfolio Theory analysis to select the best investment. I use it to manage my 401(k) portfolio.
- Security+ Certified

Crypto

- Mined new and interesting crypto projects. Experience using hard and soft crypto wallets.
- Analyzed and critiqued numerous crypto whitepapers to develop an intelligence portfolio of the industry.
- Contributed insightful market dynamics analysis of the emerging trends and fundamentals of crypto projects.

Engineering & Science

- Led process diagnostics and system redesign for turbocharged efficiency on multiple client projects.
- Led engineers and scientists on small teams tackling multiple \$1M+ pharma projects.
- Specified, estimated, and purchased manufacturing equipment for capital expenditures, \$1M+ projects.

Research

- Conducted pharmaceutical research and development in order to produce pharmaceutical products at scale.
- Wrote a groundbreaking thesis on marketing of emerging markets and its connection to popular culture.
- Designed a theoretical rocket fuel production plant for Mars.

Negotiations

- Orchestrated the successful negotiation of a non-disclosure agreement between executives of a leading GPU manufacturer and Dynetics.

Systems Engineer ♦ Dynetics ♦ Aerospace ♦ Huntsville, AL

January 2020 – Present

Selected for an elite team to modernize ground control systems operated by the U.S. Army.

Project & Process Engineer ♦ Evonik ♦ Multiple Industries ♦ Multiple Locations

May 2015 – January 2020

Reverse-engineered commercial pharmaceutical drugs. Performed front-end UI and backend database development to create a multi-purpose knowledge management program. Constructed mathematical models to simulate processes and specify equipment. Conducted statistical analysis on experimental results. Earned a certificate in Experimental Design a.k.a 'Design of Experiment (DOE)' as well as Six Sigma.

Summer Associate ♦ U.S. Nuclear Infrastructure Council ♦ Federal Affairs ♦ Wash. D.C.

June 2014 – July 2014

Analyzed and reported on federal government energy policy to industry stakeholders.

Energy Analyst ♦ Pegasus Group, LLC ♦ Federal Affairs ♦ Atlanta, GA

May 2011 – August 2016

Analyzed new energy related legislative developments for policy updates.

EDUCATION

University of Virginia | B.S. Chemical Engineering, Minor Engineering Business | GPA 3.3

May 2016

Eagle Scout 2010