

Mark Khusid

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Objective	A challenging position in electrical design engineering.	
University Education 1995 – 2000	Polytechnic University, Brooklyn, N.Y. Bachelor of Science in Electrical and Computer Engineering Graduation Date: Spring 2000 GPA: 3.50 / 4.00	
Course Work Polytechnic University 1995 – 2000	Electronics I and II C, C++, Assembly and Pascal languages TCP/IP Analysis and Programming Electric Circuit Design and Testing	Wireless, Ethernet and ATM Networks Communications Engineering Data Acquisition VHDL Computer Design
Honors & Awards	<ul style="list-style-type: none">• Dean's List, Fall 1996 – June 2000• William L. Everitt Student Award of Excellence• IEEE Student Branch Award• Best Project Award – 1999 Summer Junior Research Internship Program• Professor Myron M. Rosenthal Scholarship	
Employment		
2/2019 – Present	Moog, Inc., East Aurora, N.Y. Electrical Design Engineer	
1/2014 – 2/2019	Electrical Engineering Consultant <ul style="list-style-type: none">• Consulted on and designed novel devices for solar power applications• Constructed prototypes from concept to testing phase using engineering best practices• Used LTSpice to simulate designs and verify concordance with test results from built prototypes• Implemented out-of-the-box solutions to solve design and testing challenges in small scale and unique solar power applications	
7/2007 – 12/2013	Moog, Inc., East Aurora, N.Y. Electrical Design Engineer <ul style="list-style-type: none">• Designed analog and power circuit card assemblies for mission-critical Electronic Control Units for the Taurus II, Delta IV and Centaur Launch Vehicles• Designed, tested and implemented all-opamp Inductive Simulator for simulating servovalve dynamic response• Designed test fixtures for 787 Aircraft program• Analyzed complex circuits using pSpice, Mathcad and Matlab analysis software• Prepared and presented designs to customers	
1/2007 – 7/2007	Moog, Inc., East Aurora, N.Y. Engineering Technician <ul style="list-style-type: none">• Constructed test fixtures to test flight critical electronic circuit boards• Coordinated with engineering to optimize test fixture construction and test procedures• Performed development and production testing of flight critical electronic circuit boards	
2/2006 – 9/2006	Keller Technology Corporation, Inc., Tonawanda, N.Y. Electrical Controls Engineer <ul style="list-style-type: none">• Designed electrical control systems for novel and complete manufacturing machinery• Prepared drawing package of electrical schematics in AutoCAD Electrical 2006• Researched and documented cost estimates to design and fabricate electrical control systems in response to user requirement specifications	

3/2003-2/2006	MK Buffalo Unlimited, LLC, Buffalo, N.Y. Real Estate Investor <ul style="list-style-type: none"> • Acquired, rehabilitated and tenanted investment properties in the Buffalo, N.Y. area • Communicated with accountants, attorneys, brokers and other business consultants and acquired knowledge of their respective fields • Managed costs and rental income to insure business profitability • Acquired knowledge and skill in financial statements and business computer software
9/2000 – 3/2003	Space Technology Branch, US Army CECOM, Fort Monmouth, N.J. Computer Engineer <ul style="list-style-type: none"> • Designed, assembled, configured and installed mission-critical computer systems in fixed, Army vehicular and airborne assets • Performed extensive design, construction and field testing of Army tactical Wireless RF and Optical communications systems • Soldered and assembled prototype Army electronic, optical and RF circuits and systems • Configured routers, switches and transceiver communications components • Spliced and connectorized Army and commercial optical fiber cables and network cables
1/1999 – 6/2000	MP3L Laboratory, Polytechnic University, Brooklyn, N.Y. Research Assistant <ul style="list-style-type: none"> • Soldered and assembled experimental apparatus to study optical microresonators • Worked with laser diodes, optical fibers and interferometers • Machined an optical fiber – microsphere coupler to study telecommunications applications
5/1997 – 8/1997	Markperi International Enterprises Inc., Islandia, N.Y. CAD / Computer Consultant <ul style="list-style-type: none"> • Drafted electrical schematics and machine parts utilizing AutoCAD • Coordinated with technicians to improve existing drawings • Installed and maintained network over company computer systems
Publications	N. J. Vallesterio, M. Khusid , N. S. Prasad, LTC J. Carrano, G. Duchak, J. Ricklin, M. Vorontsov, “Free-Space Optical Communications Systems (FOCUS): An Army Overview,” SPIE Photonics West Conference, Free – Space Laser Communication and Imaging II, Seattle, 9-11 January 2002
Special Skills	<ul style="list-style-type: none"> • Learning cybersecurity tradecraft, vulnerability analysis, exploit development, writing shellcode for x86-64, x86 and ARM processors. • Proficient in basic web page design, web server operations, Amazon Web Services server administration, Docker Container deployment, and OpenVPN server administration. • Webmaster for www.mkdynamics.net and www.k2pca.org • Proficient in Red Hat Fedora and Debian based Linux such as Fedora Core, Kali, Parrot OS, and Ubuntu, Whonix and TAILS. • Proficient in lathe and milling machine operations, electric circuit design, soldering and construction, computer assembly and troubleshooting, automotive maintenance and repair.
Hobbies	<ul style="list-style-type: none"> • Practicing penetration testing and Capture The Flag competitions on HackTheBox.eu • Licensed Amateur Radio Operator with Extra Class license. Licensed Volunteer Examiner by ARRL, Volunter Exam Coordinator. • Data communications using the AX25 over TCP/IP protocol on VHF Ham radios. • Raspberry Pi projects. • Practitioner of Tae Kwon Do, Krav Maga, Shaolin Kungfu, swimming and weight lifting. • Camping, primitive survival and self-sufficiency.
References	Available upon request