

Technology Metrics, LLC

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Company Profile 2018

INTRODUCTION

Technology Metrics is an independent certified small business that is uniquely qualified to support public and private sector technology leaders by providing patent services, and management and engineering consulting support services. The president of Technology Metrics has had an extensive professional career in private industry as a chief technology engineer and certified program management professional (PMP), and he brings an exceptional combination of knowledge, skills, and experience to his position as chief executive. He is also a registered U.S. patent agent, licensed to practice before the U.S. Patent and Trademark Office in the drafting, filing, and prosecution of patent cases. Technology Metrics will fill the need for patent services, and for management and engineering consulting support services in helping to achieve overall mission success.

TECHNOLOGY METRICS, LLC

Technology Metrics, LLC is a limited liability company founded in 2010 in Washington DC. It has received small business classification from the Small Business Administration including small disadvantaged business self-certification, and is registered in the System for Award Management (SAM). Its patent services focus areas include digital electronic systems, semiconductors, microelectronics, electrical circuits and systems, radiation hardening, and nanotechnologies. The management and engineering consulting support services focus areas include program management, subject matter expert services in the technical fields of microelectronics, nanotechnology development, digital system electronics, and radiation hardening. Technology Metrics also offers expert witness services and has provided consultations in patent infringement cases in the areas of microelectronics and program management best practices.

QUALIFICATIONS AND EXPERIENCE

Leonard Rockett, Ph.D. is the president of Technology Metrics, LLC. He is a **registered U.S. patent agent.** His work in this area focuses primarily on working with independent inventors, small businesses, and universities to ensure that they fully exploit their patentable opportunities and in helping them to manage their intellectual property portfolios. He has developed collaborative alliances with other patent practitioners, including patent agents/attorneys and patent paralegals, to more easily engage them in projects, if necessary, where their involvement would bring added value.

Leonard Rockett earned his doctorate degree in electrical engineering with a specialization in microelectronics from Columbia University in the City of New York and has had extensive engineering and management experience in private industry. He is a **subject matter expert** in microelectronics; semiconductor device, circuit, and product design and characterization; design and process radiation hardening techniques for aerospace and military electronics; advanced memory circuits; nanotechnology devices and structures; and program management. As an **author and inventor**, he has authored or co-authored over 80 published technical reports and papers, and he holds 16 U.S. patents.

Dr. Rockett is also a **certified program management professional** and has successfully managed multiple programs involving the design, development, and qualification of microelectronic technologies and products for military and aerospace systems, leading cross-functional program teams throughout the program lifecycle, accomplishing all program objectives on-schedule and within budget. He has over 20 years experience as a **senior program manager** at BAE Systems, Manassas VA where he managed programs that spanned across all contract types, from firm fixed-price standard product delivery programs to multi-million dollar, multi-year cost-plus technology and product development prime contracts.

For over eight years, he was the **manager of the microelectronics business area** within the space electronics line of business at BAE Systems in Manassas where he managed to specific annual business targets. Reporting directly to the site executive, he was the senior executive manager of technology development programs that typically produced \$15-25 million of annual revenues and he had a staff comprised of senior program managers directly reporting to him over that time.

Leonard Rockett was the **program management director** during a three-year DoD-funded \$125 million foundry modernization major program that significantly upgraded the wafer fabrication capabilities of the microelectronics foundry in Manassas. The BAE Systems foundry modernization program achieved all key performance parameters for the program, on-schedule and within budget. After its successful completion, the foundry modernization program team was awarded **The Defense Certificate of Recognition for Acquisition Innovation by the Under Secretary of Defense (Acquisition, Technology and Logistics)** acknowledging the “exemplary program performance in achieving all of the major objectives of the contract, within budget and schedule”.

Prior to pursuing his program management career, Leonard Rockett was **chief engineer** of radiation hardened technology development programs and as such represented the core competence for microelectronics technology characterization and radiation hardening on numerous DoD-funded programs, enabling the successful completion of their key technical objectives. He was a leading member of the development team that was responsible for the development of five generations of radiation hardened technologies and memory products at the microelectronics foundry in Manassas. Before that, at RCA Laboratories, he performed some of the earliest developmental work on the use of charge-coupled devices (CCDs) for signal processors and imagers, and he was the first to successfully invent and implement “radiation hardened by design” concepts when he invented a special hardening circuit that would be the first attempt ever to mitigate radiation effects by on-chip, integrated circuit design (U.S. Patent # 4,011,471).

For 12 years while at BAE Systems, Leonard Rockett taught college courses as a visiting professor and then an adjunct professor of electrical engineering at Howard University in Washington DC. As a **visiting professor** under a corporate-sponsored faculty loan program, he was a full-time faculty member of the electrical engineering department for one academic year and carried a full teaching load, including

courses on electronics, electrical circuits and semiconductor device physics, and he was a faculty advisor. He remained on the faculty for an additional 11 years as an **adjunct professor**, teaching one course per semester and advising graduate students on their master's and doctoral research.

For over the past ten years he has participated as a **member of the electrical engineering industrial advisory board** at the University of the District of Columbia.

Dr. Rockett is an **ABET program evaluator**. ABET, incorporated as the Accreditation Board for Engineering and Technology, Inc., is a non-governmental organization that accredits post-secondary education programs in applied science, computing, engineering, and engineering technology. ABET accredits college and university degree programs in the United States and in many other countries. Program evaluators provide knowledge on professional practice, professional preparation, and continuous improvement. Evaluation teams, comprised of program evaluators, conduct periodic on-campus reviews of these programs to assess their continued compliance with ABET accreditation criteria.

He is also a **member of a DoD, DoE, and NASA-sponsored National Academies of Sciences, Engineering, and Medicine (NASEM) committee** studying the "Space Radiation Effects on Electronic Components: Testing Infrastructure for the U.S. Space Program." Specifically, the committee is evaluating the current capabilities and future needs in the United States to ensure electronic components planned for future U.S. space programs are able to withstand the radiation stresses they will be subjected to during their intended mission life.

As a **Chief Engineer, Electrical Engineering Professor, Senior Program Manager, Business Area Manager, and Program Management Director of the Foundry Modernization Program** while at BAE Systems and now as a **Registered U.S. Patent Agent**, acknowledged **Subject Matter (Technology) Expert, Management Consultant, ABET Program Evaluator, NASEM Committee Member, and President at Technology Metrics**, Leonard Rockett has kept abreast of the ever-expanding fields of engineering technology and management, and he has continued to participate in professional development initiatives. He has also received numerous awards for leadership and innovation over his professional career.

Leonard Rockett earned his B.S. degree in electrical engineering from Howard University in Washington DC, and his M.S. and Ph.D. degrees in electrical engineering with a specialization in microelectronics from Columbia University in the City of New York. He achieved his program management professional certification (i.e., certified PMP) from Lockheed Martin. He is a member of Tau Beta Pi and Eta Kappa Nu engineering honor societies. He is also a member of the American Intellectual Property Law Association (AIPLA) and the National Association of Patent Practitioners (NAPP), and a senior member of the Institute of Electrical and Electronics Engineers (IEEE).

Dr. Rockett is a U.S. citizen and he has held a SECRET-level U.S. government security clearance.

THE TECHNOLOGY METRICS VALUE PROPOSITION

Technology Metrics is the small business best value solution for expert management and technology consulting support services and patent services.

Technology Metrics offers the following professional support services:

Patent Services - (From concept to patent grant to post-issue stewardship)

- Patentability opinions
- Prior art searches
- Provisional patent application express filing services
- Regular non-provisional patent application preparation, filing, and prosecution services
- Intellectual property portfolio management

Expert Witness Services

- Intellectual property consultation / testimony
- Radiation tolerant/hardened microelectronics consultation / testimony
- Program management best practices consultation / testimony

Program Management and Business Development

- New business requirements assessment
- Proposal generation
- Pre-submission full proposal (compliance) review
- Post-award contract (cost/schedule) baselining support
- Advisory and assistance services
- Program planning and program plan document generation
- Program cost/schedule (versus plan) management
- Technical progress assessments
- Reporting document generation and review

Systems Engineering and Technical Assistance (SETA)

- Advisory and assistance services
- Proposal document evaluations
- Program progress assessments
- Microelectronics subject matter expert consultations
- Technology and product roadmap assessments
- Integrated Product Team participation
- Radiation hard technology & products subject matter expert consultations

Proposal and Reporting Document Assessments

- Evaluate (rank) proposal submissions
- Program plan evaluations
- Test plan / test report assessments
- Reporting document reviews
- Patent disclosure/ technical publication assessments

CONTACT INFORMATION

The contact information for Technology Metrics, LLC is provided here.

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RELEVANT NAICS CODES

541199 – PATENT AGENT SERVICES
541330 – ENGINEERING CONSULTING SERVICES
541611 – MANAGEMENT CONSULTING SERVICES
541618 – OTHER MANAGEMENT CONSULTING SERVICES
541690 – OTHER SCIENTIFIC & TECHNICAL CONSULTING SERVICES
611310 – COLLEGES, UNIVERSITIES, & PROFESSIONAL SCHOOLS
611430 – PROFESSIONAL AND MANAGEMENT DEVELOPMENT TRAINING

RELEVANT PRODUCT SERVICE CODES

R408 – PROGRAM MANAGEMENT / SUPPORT SERVICES
R424 – EXPERT WITNESS SERVICES
R425 – ENGINEERING AND TECHNICAL SERVICES
R498 – PATENT AND TRADEMARK SERVICES
U001 – LECTURES FOR TRAINING
U004 – SCIENTIFIC AND MANAGEMENT EDUCATION

SUMMARY

Technology Metrics welcomes the opportunity to provide its patent services and its management and engineering consulting support services to public and private sector technology leaders in accomplishing their missions. ***Technology Metrics represents the best value solution.*** Its president is an experienced technology leader in both chief engineer and program management roles on numerous successful contracts during his career, and he is an experienced U.S. patent agent. Technology Metrics will leverage the extensive knowledge, skills, and experience of its team members to great advantage for the project.

Technology Metrics welcomes an opportunity to contribute to your mission success.
