

WALTER SIMMONS III

ELECTRICAL ENGINEER

Solutions-oriented Electrical Engineer with more than 7-years experience planning coordinating, and performing all phases of integrated circuit design projects, specifically the enhancement of electrical instruments, equipment, facilities, components, products, and systems. Combine strategic planning with strong analytical and technical talents. Offer critical support; skilled at performing complex analysis, testing, and validation of designs. *Technical expertise includes...*

Design: Integrated Circuits (IC), Resistors, Inductors, Capacitors, Digital Design, Transceivers, Radio Frequency (RF) Engineering

Methodologies: Verification Testing, Program Documentation, Electromagnetic Interference (EMI) Measurements, Noise Compliance Testing, RF Propagation Modeling, Digital Receiver Technology (DRT) Site Surveys, Engineering & Technology Concepts, Digital Electronics (DE)

Tools: MatLab, SIGINT System, MS SQL, Microsoft Visio, Microsoft Office Suite (Word, Excel, PowerPoint, Outlook, Access), C#, Java, Java Scripting, Radar Systems

Platforms: Windows, UNIX

PROFESSIONAL EXPERIENCE

NATIONAL SECURITY AGENCY, Fort Meade, Maryland

Electrical Engineer, 1/2002 – 2/2009

Provided electrical engineering expertise and support throughout development and certification of crypto-engine. Traveled extensively to Naval Research laboratory (NRL); collaborated with DOD evaluators to review software and program documentation. Identified and documented improper code practices, procedural flaws, and security related issues within software packages; recommended corrective action plans.

Accountable for conducting critical evaluations on various equipment, including annual Electromagnetic Interference (EMI) field strength measurements at L-Array, and noise compliance testing on SIGINT system. Proactively executed RF design projects, propagation modeling, and DRT site surveys as Field Operations RF Engineer; tested and evaluated equipment for performance and reliability.

Selected Contributions:

- Spearheaded numerous engineering projects; prioritized workflow and executed research methodologies in order to apply standard electrical theory principles throughout project engagement.
- Orchestrated all facets of Security Verification Testing (SVT) as Director; analyzed software, reviewed program documentation, and verified testing procedures, ensuring optimal functionality.
- Consistently completed projects within established time parameters; monitored progress and provided technical expertise to ensure attainment of all requirements.

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- Recognized for outstanding contributions; progressed through a series of increasingly responsible roles, including Signals Analyst, Field Operations RF Engineer, and Project Engineer.

ADDITIONAL EXPERIENCE

BALTIMORE COUNTY PUBLIC SCHOOLS, Towson, Maryland

Digital Electronic Instructor, 8/2008 - 6/2010

Created and presented lesson plans to classes comprised of 30+ 9th-12th grade students; implemented whole class, small group, and one-on-one instruction across various electronic topics, including Introduction to Engineering and Technology Concepts (IETC), and Digital Electronics (DE). Instituted creative teaching techniques in order to assist in making difficult concepts accessible to all students. Communicated with parents, administrators, testing specialists, and social workers in order to develop individual educational plans.

Selected Contributions:

- Taught hands-on digital electronics design, which included integrated circuits, resistors, inductors, and capacitors.
- Successfully maintained student interest and provided interactive atmosphere; enhanced learning by incorporating various teaching methodologies, such as visual displays and discussions.
- Effectively broke information down into small parts, which allowed students to better comprehend subject matter.

EDUCATION & CREDENTIALS

Bachelor of Science, Electrical Engineering (BSEE), 2001

MORGAN STATE UNIVERSITY, Baltimore, Maryland

Professional Development

- Communication Systems Graduate Course
- Principles of Pulse Doppler Graduate Seminar
- Digital Electronics Project Lead the Way (PLTW)
- Technology Education Instructional Practices Training Certification (CTE Safety): Laws, Tips & Recommendations; Liability & Violation Recognition
- Technology Education Instructional Practices Training Certification (CTE Safety): Introduction to Band Saw & Drill Press Safety and Use