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Carroll A. Coleman

Objective: Seeking an Engineering (Design/Testing/Research) position that will allow me to explore beyond the programming and coding aspect of engineering. I would like to secure a project engineering, system (integration) and/or fleet engineering position. I enjoy hands-on experience tasks and I would like to work with an outstanding motivated engineering team.

Education: Bachelor of Science, Mechanical Engineering, A&T State University, Greensboro, NC. (GPA 3.0 - 08/18/1980)
Minor: Solar Energy/Mathematics Focus Emphasis: Electrical Engineering
Honorary Mechanical Engineering Fraternity
Participant in the NAVY Education Programs
Good Communication and Networking Skills
Team builder

Clearances: TS (TOP SECRET) (in good standings).

Work Experience: Naval Sea Commands (NAVSEADD), Dahlgren Division

Supported the Computation and Analysis Department /branch's task of analyzing existing and

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Advanced Submarine Launch Ballistic Missile (SLBM) system, including systems concepts and develop simulations of the total system: research, formulated, and test mathematical models that imulate existing and advanced SLBM System. Analyze and develop weapon systems; optimization and effectiveness techniques, including nuclear effects, target selection, sequencing, algorithms, fuzing and firing subsystems. Develop and maintain engagements models and strategic targeting mission planning, software related to nuclear effects; analyze vehicle performance capabilities, effective deployment and limitations; support future fire control development with studies to evaluate the applications of "leading edge" modeling and simulation techniques.

Future Systems Analysis Group (Jan 2001 - Jul 2003)

Duties: Support the study and analysis of Rigid Body Offsets, high fidelity fuze trade-offs, testing and modeling and simulation of the re-entry body and total missile performance.

ND4/~\$74,000)/Permanent status

Dynamic & Trajectory Analysis Group (Jan 1980 - Jun 2001)

Duties: Provided analysis in the SLBM System with over 27 years experience in the Dynamic & Trajectory Analysis Group. Responsible for development and maintenance of: reference object oriented trajectory simulation, SIX Degree of Freedom, UWL Models, Targeting Models, Gas Dynamic Models and Scientific Visualization (Graphics). Provided assistance to the Strategic Targeting Branch/Targeting Systems Group to support the analysis on real trajectories.

→ there's a
strategic targeting
branch at NSWCDD

Maintained a Trident Three Degree (3DOF) and Six Degree of Freedom (6DOF) trajectory simulation model.

Supported the level effort of work in a defined Guidance and Analysis Team at NSWCDD. Assisted in making permanent changes in the 6DOF model.

Supported and studied work in the Advanced Weapons Systems Simulation (AWSS) studies: velocity measurement, sonar error model studies, submarine's motion model (developed by the Naval Ship Research and Development Center), and the submarine's navigation error.

Trained (over 20 years) assigned personnel in coding, testing and modeling. Accomplished many tasks of programming, flowcharting, performance analysis, and overall processes associated with trajectory simulation development and performance data fictionalization techniques. (A beginning and ending process.)

Responsible for maintaining the operational status of dynamic structural analysis on a composite padome, use by the Navy to cover and protect Radars on SURFACE SHIPS. Supported Jahlgren's Special Project Branch. Communicated work progress and efforts with developers Lockheed Martin in San Francisco).

Managed project guidelines, schedules and technical review. Re-evaluated all projects for lessons learned and quick assessment of project (time) management.

Served as a NSWCDD technical COTR under the Small Business Contract (NSWCDD/NEAR).

Hardware/Software: VAX-1170, VAX-6000, DGS/CDC/SGI Systems Microsoft Word, PowerPoint, Excel, Finances, FORTRAN, and BASIC

References: Available Upon Request.