

Orestes D. Gooden, MAS
Commander, US Navy Ret.
Department of Aviation and Emergency Management
Assistant Professor Aviation Science
Associate Aviation Program Coordinator
Coordinator of STEM and Outreach for ECSU School
of Science, Aviation, Health, and Technology
Associate Director Aviation Science Program

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SUMMARY STATEMENT

Committed to the academic challenge, and dedication of aviation education to provide mentorship, advisement and motivation to students to engage in “S.T.E.M.”. Bringing over 40 years of professional military, corporate and post- secondary educational experience, combined with a dual specialty master’s degree in aerospace operations and management.

EDUCATION

Masters of Aeronautical Science (MAS)
Specialty: Aerospace Management
Aerospace Operations
Embry-Riddle Aeronautical University, Daytona, FL
March 1995

Designated Naval Aviator
U.S. Navy Flight School/ Naval Pilot, Pensacola FL
August 1985

Designated Nuclear Propulsion Operator
U.S. Navy Nuclear Power School and Prototype Training, Ballston Spa, NY
December 1983

Bachelor of Science (BS), Geology Virginia State University, Petersburg VA
May 1981

WORK HISTORY:

Elizabeth City State University Assistant Professor Associate Aviation Program Coordinator Coordinator of STEM and Outreach For the ECSU School of Science, Aviation, Health and Technology Former ECSU Chairman, Technology Department Former ECSU Chairman, Aviation and Emergency Management Department	2003 – Present
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Nineteen years' experience in a collegiate environment at a constituent institution of The University of North Carolina. Performed faculty and administrative duties including Program development and expansion of Elizabeth City State University's Signature Aviation Program, course and curriculum development, student advisement and lecturing. Grant Writer and Program Manager. Specializing in Aviation Operations, Aviation Safety and Aerodynamics. Served on the Faculty Senate, and University's Career Service Advisor Board. Successfully awarded grants for aviation, totaling \$2.2 million (PI/co-PI). Site Director Navy JROTC Flight Academy, Site Coordinator Air Force JROTC Flight Academy, Director-coordinator of several aviation and science/math related outreach programs.

COURSES TAUGHT

ENGT 101 - Introduction to Engineering
AVI 100 - Introduction to Aviation
AVI 122 - Orientation Seminar for Aviation Science
AVI 220 - Air Transportation
AVI 230 - Aviation Management
AVI 250 - Basic Aerodynamics and Flight Physics
AVI 260 - Aviation Human Factors & Safety
AVI 270 - Air Traffic Control & the NAS
AVI 314 - Aviation Meteorology
AVI 315 - Aviation Legislation and Ethics
AVI 370 - Aviation Research Methods and Stats
AVI 232 - Aviation Safety Management System
AVI 340 - Corporate Flight Operations
AVI 345 - Airline Operations and Management
AVI 415 - Aviation Project Management
AVI 430 - Airport Planning and Management
AVI 350 - Advanced Aerodynamics
AVI 420 - Crew Resource Management
AVI 411 - Transition to the Aviation Industry
AVI 465 - Aviation Capstone
UAS 100 - Introduction to UAS
UAS 200 - UAS and the NAS: Laws & Regulations
UAS 250 - Operational Sensors and Payload

Ford Motor Company / Visteon Automotive Systems

1996- 2003

Nine years' experience as a manufacturing engineer, process manager and department supervisor. I led projects and wrote procedures. Manage pay records and assure product quality. Operated utilizing the QS9000 system following all process monitoring as well as employee training and development.

Area Coordinator Air Intake Systems

Lead product coordinator of three shift operation overseeing the activities of 75 hourly employees, running 11 processes and 30 machines in the production of engine Intake and fuel system components producing 12,000 elements per day. Devised quality check for air intake mold shells reducing scrap cost by 80% and saved \$10,000 per week. Instrumental in reducing

salvage components by 50% utilizing a failure effects analysis workgroup to improve operations of a machine causing errors. Implemented lean manufacturing tools of super routes enhancing pull systems and reduced buffers.

Project Manager Area and Plant Maintenance

Assigned as Project Manager and Maintenance Supervisor, managing skilled trades in an increased tempo trouble shooting capacity. To analyzes production equipment efficiency, and eliminate its deficiencies by improving machine uptime, write procedures and standardizing work practices. Tracked milestones monitored gap assessments and implemented appropriate changes. Project success with an increase from 55% to 85% uptime, all work practices standardized with new procedures to accomplish scheduled maintenance on the machines.

NAVCOM AVIATION, INC.

1995 – 1996

Experience as an Executive Corporate/Charter aviation representative. Served as a Customer and Public relations representative and contract charter pilot. Managed and supported the ramp, and front desk sections of an Executive Aviation Service Operation (FBO). Responsible for the hangar and storage of corporate aircraft.

United States Navy

1982 - 2006

Over 24 years' experience in positions of increased responsibility, integrating program and resource management; personnel and equipment supervision; training and development and effective communicative skills.

Throughout my Navy career, I carried out operational duties including mission related flying as well as search and rescue missions in both fixed wing and rotary wing aircraft. I also performed a wide range of administrative assignments with increasing levels of responsibility that include training, human resources, security, and culminating as command staff position intelligent directorate. Had served previously as command executive officer. My duties included interaction with flag-level military, political and government agency administrators worldwide.

Qualified as a High-Risk Training Instructor, Managing, organizing, and instructing all phases of technical training curricula to aviation personnel, providing leadership and supervision for more than 1,200 junior officers annually.

Created strong supportive and productive network of recruitment centers for minorities.

Organized, coordinated, and implemented daily squadron and aircraft carrier air operations.

Program Manager and Quality Assurance Inspector

Qualified in Recruitment/Sales, Training, Evaluating, Counseling and Supervising.

Developed community awareness in military aviation by scheduling and participating in air shows and by appearing as guest speaker at various community functions.

Specific Training includes: Total Quality Leadership/Management; Drug and Alcohol Prevention; Technical and Minority Recruiting/Placement; Sexual Harassment Prevention; Maintenance and Materials Management.

SUNOCO ENERGY DEVELOPMENT CO. Operations 1981-1982
Geologist

Practical geophysical well logging and interpretation.
Experienced in land acquisition, landowner and government relationships.
Knowledgeable in field mapping and land reclamation.

PACKARD ELECTRIC DIV., GENERAL MOTORS Contact 1978-1979
Analyst

Collected and summarized data concerning the resistivity of metal contacts. Gained practical and theoretical background in electrical engineering and metallurgical applications

Conference Paper:

Rawat, K.S., Mangham, R., Gooden, O.D., Stone, E, Impact of Engineering Design-Focused Summer Academy Experience on Interest Toward STEM Learning and Careers (Evaluation, Diversity) Jun 2019

Rawat, K.S., Mangham, R., Gooden, O.D Implementation and Evaluation of an Engineering-Focused Outreach Program to Improve STEM Literacy (Evaluation) Jun 2017

Rawat, K.S., Lawrence, E.E., Mangham, R., and Gooden, O.D., “K-12 Aerospace Academy: An Out-of-School Authentic and Experiential STEM Learning Experience for College and Career Pathways to Aerospace/Aviation,” in Proceedings of American Society for Engineering Education (ASEE) Annual Conference, June 24-27, 2018, Salt Lake City, UT.

Rawat, K.S., Lawrence, E.E., and Gooden, O.D., “Mobile Aerospace Education Lab (m-AEL): A NASA Supported K-12 “Roadshow-In-A-Box” Initiative to Advance Aviation/Aerospace Education in Underserved Counties,” in Proceedings of American Society for Engineering Education (ASEE) Annual Conference and Exposition, June 25-28, 2017, Columbus, OH.

FUNDED RESEARCH ACTIVITIES

Has served as the Co-Principal Investigator/Associate Project Director on multiple grants, including National Institute of Justice (NIJ), NC Division of Aviation, NASA, the Burroughs Wellcome Fund, and the Golden LEAF Foundation.

United States Department of Transportation, Federal Highway Administration, Summer Transportation Institute, PI, Award Grant Fund of \$55,000, 2005 – 2006

Golden Leaf Foundation - 2006, \$850,000

NC Department of Transportation - 2006, \$40,000

NC Department of Transportation – 2005, \$17,500

NC Legislative Continuation Budget – 2007-2008, \$250,000

Office of Naval Research – 2022 \$515,000

Funds implemented to develop and enhance to implement Science Learning Laboratory. Elements include Aviation Meteorology Center, Air Traffic Aviation Control Simulation System, and Computer Lab. Funds also used to place interns in the field of transportation and enhance the opportunities for minorities, women and Disadvantaged Business Enterprises. Provided several seminars, round-table discussions, and sixteen student internships.

Professional and Civic Involvement

River City Community Development Corporation	Chairman
University Aviation Association	Member
American Association of Airport Executives	Member
Experimental Aircraft Association	Member
Aircraft Owners and Pilots Association	Member
Organization of Black Aerospace Professionals	Member
Women in Aviation International	Member
Civil Air Patrol	Senior Member
Elizabeth City-Pasquotank County Regional Airport Authority Board Secretary	Former Member
Pasquotank County Volunteer Firefighter – Number Eight Providence Station	Former Member

FAA and FCC Certifications & Ratings

FAA Commercial Pilot Ratings

Airplane Single-Engine Land

Airplane Multi-Engine Land

Rotorcraft-Helicopter

Instrument: Airplane & Helicopter

UAS Remote Pilot

FCC Radiotelephone Operator Permit

Military Certifications

US Navy Nuclear Propulsion Operator Certification

US Naval Aviator

US Navy Flight and Ground Instructor

Held TS/SBI Security Clearances