

LAURENCE GRESSETT

SENIOR ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 30 years of experience in engineering, product support, depot production, research, development, and as a reserve pilot in the armed services. Professional engineering experience includes managing research and development technologies on several weapons programs. Oversaw multiple Air Force Research Laboratory (AFRL) kinetic and non-kinetic weapon programs for munition system effects. Served as the Eglin Engineering Technical Director and Director of Engineering at Eglin and Robins. Worked as Government Flight Representative (GFR) and Test Lead for AFRL—provided military flight releases (MFRs), as well as airworthiness and technical guidance for multiple aircraft and weapons systems. GS-15, Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Systems Engineering
Sustainment Engineering

Government Flight
Representative
Air Force/Navy Pilot

Airworthiness Certification
Test Lead

WORK HISTORY

Senior Associate | Dayton Aerospace, Inc.
2024-present, Dayton, OH

Provide senior-level expertise to government and industry customers in the areas of research and development (R&D), hands-on weapons integration, and related studies. Extensive experience with airworthiness certification; weapons testing; and identification, review, assessment, and resolution of deficiencies across a weapon system's life cycle. Supports independent technical reviews, program support reviews (PSRs), technology readiness assessments (TRAs), policy development, and technology transition planning.

Government Flight Representative & Test Lead | Air Force Research Laboratory
Munitions Directorate (AFRL/RW)
2021-2024, Eglin AFB, FL

GFR and test lead for aircraft providing MFRs and airworthiness and technical guidance to AFRL and AFWERX scientists and engineers. Completed GFR inspections for Sensors Directorate (AFRL/RW) on Long Endurance Aircraft Platform (LEAP) and Ultra LEAP at Dugway Proving Ground, UT. Performed GFR duties on BETA aircraft Alia at Duke Field, FL. Worked airworthiness as test lead for several AFRL/RW Class I, II, and III unmanned aircraft systems (UAS) programs.

Deputy | Air Superiority (AFRL)
2014-2021, Wright-Patterson AFB, OH

Provided administrative and technical guidance to scientists and engineers in AFRL developing propulsion, electronic/cyber warfare, and air-launched kinetic and non-kinetic munitions technologies. Managed AS efforts with Air Combat Command (ACC), Air Force Life Cycle Management Center (AFLCMC), Defense Advanced Research Projects Agency (DARPA), and all of the AFRL Directorates including Munitions, Sensors, Aerospace Systems, Directed Energy, Information, Material/Manufacturing, Human Performance, SDPE, AFWERX, and Space Vehicles. Worked directly with Headquarters Air Force and ACC to develop POM inputs, requirements, roadmaps, and Core Function Support Plan (CFSP) inputs. AFRL subject matter expert (SME) for the Chief of Staff of the Air Force (CSAF) who chartered the AS 2030 Enterprise Capability Collaboration Team (ECCT) that developed a flight plan capability to enable air superiority in the highly contested environment of 2030 and beyond.



DAYTON AEROSPACE

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EDUCATION

MS, Mechanical Engineering
Mississippi State University

BS, Aerospace Engineering
Mississippi State University

Air War College
Air University

Enterprise Leadership Seminar
University of Virginia, Dryden
School of Business

CERTIFICATIONS

Airframe and Power Plant
Mechanic Rating (A&P)

Federal Aviation Administration
(FAA)

Acquisition Professional
Development Program (APDP)

Systems Planning, Research,
Development, and Engineering
(SPRDE) – Science & Technology
Management (S&TM), Level III

SPRDE – Program Systems
Engineer (PSE), Level III

SPRDE – Systems Engineering
(SE), Level III

WORK HISTORY (CONT'D)

Director of Engineering | AFLCMC Armament Directorate, Test & Training Division (AFLCMC/EBY)

2012-2014, *Eglin AFB, FL*

Director of Engineering for the Test and Training Division. Supervised four engineers and was responsible for the airworthiness, technical content, and technical career field oversight for the Full-Scale Aerial Targets (FSAT), Subscale Aerial Targets (SSAT), P5 Combat Training System (CTS) pods, and Common Range Integrated Instrumentation System (CRIIS). Owned operational safety, suitability, and effectiveness (OSS&E) and airworthiness for over 400 QF-16, QF-4 and BQM-167 aircraft. Managed technical content for P5 CTS block 2A upgrade for 1,500 Air Force and Navy Air Combat Maneuvering Instrumentation (ACMI) pods. Lead Eglin engineer for managing Technical Directors Exchange (TDE) and Executive Weapon System Review (EWSR) topics and agendas. Engineering duties included acquisition, sustainment, deficiency reports (DRs), and mishap investigations for QF-16, QF-4, BQM-167A, P5CTS, Common Range Integrated Instrumentation System (CRIIS), and Gulf Range Drone Control System (GRDCS) which controls Full Scale Aerial Target (FSAT) and Subscale Aerial Target (SSAT) operations at Tyndall AFB. Tested fuze technologies and munition system effects on the Eglin Gulf Range during the Weapon System Evaluation Program (WSEP) with air missiles (AMRAAM).

Technical Director | Air Armament Center Engineering Directorate (AAC/EN)

2010-2012, *Eglin AFB, FL*

Technical Director for over 1,200 Engineers at Eglin AFB. Responsible for providing expert systems engineering technical direction and guidance for Center engineering activities in support of Air Armament Center (AAC) assigned weapon systems including AMRAAM, High-speed Anti-Radiation Missile (HARM), Small Diameter Bomb (SDB II), PLMK82 (BLU-129), Hard Target Void Sensing Fuze (HTVSF), and Massive Ordnance Penetrator (MOP). Assured proper allocation of science and engineering personnel, policies, processes, and tools in support of Center program offices. Essential duties included Eglin lead for airworthiness issues. AAC/EN vital technical member on program management, preliminary design, critical design, and program sufficiency reviews on AAC systems.

Systems Division Chief | Engineering Policy and Technology Insertion Branch (ENS)

2009-2010, *Robins AFB, GA*

Supervised 15 engineers in the functional home office for systems engineering plans (SEPs), Systems Engineering Assessment Model (SEAM), first article tests, 339s, configuration management, Material Support Division (MSD)/General Support Division (GSD) funding, Small Business Innovation Research (SBIR) projects, nuclear issues, Expeditionary Combat Support System (ECSS) subject matter expert assistance, and Wing Staff Assistance Visits (SAVs). Supported acquisition projects base inspections and technology improvements, and answered Center suspenses. Systems Engineering Division Chief for C-5, C-17, F-15, C-130, special operations aircraft, Distributed Common Ground System (DCGS), armament, electronic warfare (EW), support equipment and vehicles (SE&V), Automatic Test Group (ATG), and the Technical Data Group. EN Technical Advisor for Product Lifecycle Management (PLM) in ECSS.

Director of Engineering | 542nd Combat Sustainment Wing (CSW)

2008-2009, *Robins AFB, GA*

Director of Engineering of 450 engineers for all technical issues in the areas of the armament, SE&V, technical data, EW, and ATG at Robins. Responsible for providing expert systems engineering technical direction and guidance for Wing engineering activities in support of assigned systems including AMRAAM, radar warning receivers (ALR 69), missile warning systems, jammers (ALQ-131 & 184), aircrew life support, aerospace ground equipment (AGE), nuclear support equipment, Mine Resistant Ambush Protected (MRAP) vehicle, Versatile Depot Automatic Test Station (VDATS), technical data management, guns, bomb racks, and advanced classified programs.

Prior to 2008

- Lead Engineer, HAF/A4IT, *WPAFB, OH*
- Mechanical Engineer, 730th ACS, *Robins AFB, GA*
- Aerospace Engineer, EA-6B, *NAVAIR 4.3.3, Jacksonville, FL*
- Navy Reserve Pilot, *F/A-18, Jacksonville, FL*
- Mechanical Engineer, Space Shuttle, *Lockheed, Kennedy Space Center, FL*
- Aerospace Engineer, Missile Simulations, *Sverdrup, Eglin AFB, FL*

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