



## Thomas W. Hamrock

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34 years of acquisition experience as an electronics/computer resources/systems engineer working out of the ENA and ENS functional home offices at Aeronautical Systems Center for the US Air Force. Wrote system specifications, statements of work, test plans, chaired design reviews, and conducted system acceptance tests. Actively involved in system life cycle from establishment of the requirements through system deployment. Primary experience in computer software and hardware engineering, systems integration, systems engineering and reconnaissance systems. Retired as GS-15.

### Principal Areas of Expertise

#### *Technical Engineering Management*

Wrote the specification for a U-2 Ground station, chaired design reviews for the program and served as integration engineer in directing flight test activities involving multiple contractors. Chief Engineer for the \$350M Senior Guardian program – a German reconnaissance program involving a newly developed high-flying prop plane, data links, airborne SIGINT sensors, and a 48 person ground station.

#### *Software Development*

Led software development efforts for numerous efforts including a U-2 Ground Station, the TR-1 Ground station, a German reconnaissance system, and AC-130U Gunship. Worked multi-level security requirements with NSA. Directed programs which included software development of 500,000 and 850,000 lines of code that met performance requirements within cost and schedule.

#### *Systems Engineering*

Led team of engineers in directing efforts for a new buy of F-15's, new buy of AC-130U Gunships, specification efforts for Combat Talon buy. Established requirements and directed efforts for Systems Engineering Plans two Special Operations programs. Worked interoperability issues between German and US reconnaissance program. Established message transfer requirements between numerous interfacing systems. Wrote system acceptance criteria for final acceptance tests. Was on site to direct acceptance testing for USAF

#### *Litigation Support*

Worked to finalize a settlement for the \$750M Gunship litigation effort; established dollar values for unfinished efforts and criteria for acceptance for work to be completed.



Dayton Aerospace, Inc.

### Position

Senior Associate

### Education

BSEE

Youngstown State University  
MS, Computer Science  
University of Dayton

### Key Positions

**Director of Engineering**

Special Operations Forces Systems  
Group

**Chief Engineer**

F-15

**Chief Engineer**

AC-130U

**Chief Avionics Engineer**

F-15

**Chief Engineer**

U-2 Special Projects

## Detailed Work History

<p><b>2003 - 2006</b> <i>City, State (or AFB)</i></p>	<p><b>Director of Engineering</b> <b>Special Operations Forces Systems Group</b></p> <p>Directed efforts for new buys of AC-130U Gunships and Combat Talon aircraft. Directed lead engineers to ensure proper support is provided and air worthiness is maintained for all SOPF aircraft. Established interface criteria for Battlefield Airman program. Lead engineer for all Special Operations development activities for AC-130U and MC-130H.</p>
<p><b>1998 – 1999</b> <i>Wright-Patterson AFB, OH</i></p>	<p><b>Chief Engineer</b> <b>F-15</b></p> <p>Directed efforts of 30 engineers supporting F-15 C/D air superiority fighter and F-15E air to ground fighter. Established and chaired joint ASC and WR CCB activities for all modifications. Guided Warner Robins personnel in the development of OSS&amp;E criteria for the F-15 Air Worthiness Certification.</p>
<p><b>2000 – 2002</b> <i>Wright-Patterson AFB, OH</i></p>	<p><b>Chief Engineer</b> <b>AC-130U</b></p> <p>Led initial efforts for OSS&amp;E certification for AC-130U Gunship. Directed accomplishment of all Gunship modifications. Engineering lead for final negotiation of \$570M claim settlement; determined withhold and work not accomplished values. On-site lead for Mission Enhancements Modification – from start to finish a 45 day effort to add satellite antennas, lap top computers, and real-time situational awareness into AC-130U.</p>
<p><b>1996 – 1997</b> <i>Wright-Patterson AFB, OH</i></p>	<p><b>Chief Avionics Engineer</b> <b>F-15</b></p> <p>Supervised F-15 SPO civilian/military Avionics engineers. Directed 17 avionics projects as Deputy IPT Lead. Applied acquisition reform initiatives to all new starts. Led technical efforts to negotiate F-15E new buy and get on contract. Successfully worked obsolescence issues.</p>
<p><b>1993 – 1996</b> <i>Wright-Patterson AFB, OH</i></p>	<p><b>Chief Engineer</b> <b>U-2 Special Projects</b></p> <p>Chief Engineer for a Joint program to provide the EP-3, ES-3, ARL, Guardrail, Rivet Joint, and Special Platforms with a common SIGINT payload. Formulated Joint Airborne SIGINT Architecture (JASA) standards through joint service working groups. Worked with multiple users including all three services and multiple agencies in proposal and document reviews; kept initial development on track and led efforts to respond to numerous adversarial program positions. Directed engineering efforts on three U-2 advanced sensor programs. Led restructuring of all three programs following Independent Review Team reviews and ASC/CC guidance to reduce risk. Conducted first Integrated Risk Management Review Process on the Senior Smart program; implemented risk aversion strategy into a revised program schedule.</p>
<p><b>1980 – 1993</b></p>	<p><b>Chief Engineer, Senior Guardian Program, WPAFB, OH</b>  <b>Division Lead Engineer, Reconnaissance Systems, WPAFB, OH</b>  <b>Lead Engineer, TR-1 Ground Station, WPAFB, OH</b>  <b>Computer Engineer, SR71/U-2 Special Project Office, WPAFB, OH</b></p>



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