

David J. Hartmann, P.E.

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Owner and sole proprietor, H5 Solutions, LLC [www.h5sglobal.com](http://www.h5sglobal.com) (SDVOSB pending)

B.S. Civil Engineering, SD School of Mines

***Expert design quality manager, design team builder, and engineer mentor***

***25 years of airport and transportation project design***

***Astute technical communicator, teacher, public-private liaison***

***Construction troubleshooter and informal contract arbiter***

***Active Professional Engineer licenses in CO, MO, NE, NM, OK, SD, UT, WY***

**Chief Engineer, Lochner Aviation 2022-2024**

After Lochner acquired Armstrong, David stayed on as Chief Engineer for two years. David's responsibility was quality management and quality control on most airfield design projects in the Western U.S. while also assisting design teams nationwide. He oversaw design standards, processes, quality management plans, and PE stamped most design packages produced for construction. David redlined construction drawings, construction specifications, contract documents, engineering reports and construction phasing plans to ensure clients received sound designs and projects that complied with grant eligibility requirements. He routinely mentored designers and project managers company-wide and assisted in troubleshooting problematic construction situations. David also teamed with other senior engineers throughout the company in developing Quality Management Plan templates, Project Manager training, and Future Leader training with staff spanning all infrastructure design sectors nationwide.

**Vice President, Engineering Director, Armstrong Consultants 2012-2022**

David and the Armstrong principals grew the airport consulting firm from 24 to 52 employees while growing revenue from \$5M to \$11M annually through contracting strictly with municipalities and airport boards around the Western U.S. Armstrong handled grant applications, grant administration, design, planning, and construction administration. During the course of this airport work, David was crucial to partnering with airport staff and municipalities to guide, interpret, and administer FAA and State requirements from grant initiation through grant closeout. He regularly participated in municipal, state, FAA, and industry conferences, workshops, and meetings.

David was responsible for the design and construction inspection divisions of Armstrong. Armstrong's nationwide design teams were routinely responsible for approximately \$30M-\$50M worth of grant-funded airport construction projects, annually, in the western U.S. David oversaw design standards, design methodologies, standard specifications, contract, and report templates, reviewed and stamped bid package documents published for construction. He calculated design fees, construction cost estimates, and reviewed construction bid proposals. David routinely mentored designers and project managers company-wide. David also designed and managed a handful of projects every year using the SOP's and standards he implemented.

During David's Engineering Director tenure, Armstrong was responsible for over \$400M in airport construction planning, design, and construction administration. This consisted of representing public owners in over 350 separate individual construction contracts. Through establishing standardized conservative, pragmatic, and communicative processes, Armstrong and their clients had zero formal project-based construction claims or legal proceedings in this timeframe.

#### **Project Engineer/Project Manager 2000-2012, Armstrong Consultants**

Project Engineer/Project Manager completing numerous design projects and administering grant documentation and managing construction on airport projects throughout the western United States. David grew adept at interpreting and leveraging geotechnical, land surveying, utility design, and environmental subconsultant teams for successful airport projects. David designed and managed a variety of projects ranging from small navigational aid (NAVAID) development to multi-million-dollar runway reconstruction programs. He brings a broad background of design and construction experience to any project.

David performed engineering design, preparation of construction plans and specifications, cost estimating, writing project design reports, final reports, preparation of grant applications, 5, 10, and 20-year capital improvement plans, grant administration, and construction project management.

During this airport work around the West, Armstrong staff travelled by company Cessna airplane. David has over 500 hours in the right seat of either a P210 or 182RG. He completed ground school and began student flight training before learning he'd never qualify for a pilot's medical certificate.

#### **Project Engineer/Project Surveyor, Banner Associates, Nichols Associates, 1994-2000**

Project Engineer/Project Surveyor managing public works, surveying, commercial, and residential design and construction projects in Colorado, Utah, South Dakota, and Nebraska. Projects included mountain town and ski slope development in Telluride and Aspen, six-mile topo survey corridor spanning the SD-NE border, restaurants, subdivisions, highways, drainage, utility rehabilitations, local & collector road designs.

#### **Engineer Officer, U.S. Army, U.S. Army Reserve 1994-2006**

Engineer Captain serving variously as a civil affairs team engineer, construction detachment commander, bridge platoon leader, and facility engineer in seven states and five countries including Afghanistan. As operations officer for the 96th Regional Support Command (RSC) DCS Engineer office in Ft. Douglas, Utah, David's team oversaw annual facility upgrade budgets and multi-state capital improvement plans routinely totaling over \$20 million to improve over 25 Army Reserve and joint use military facilities in six states. As Kandahar Provincial Reconstruction Team (PRT) Engineer on site, David developed and oversaw crucial humanitarian and military projects across southern Afghanistan and developed the PRT Engineers Handbook that saw use for several subsequent rotations of engineer and civil affairs staff. David adapted quickly and frequently by serving under many different commands in 12 years, including the U.S. Army Corps of Engineers (USACE), 10<sup>th</sup> Infantry Division (Mtn), U.S. Army Civil Affairs and Psychological Operations Command (USACAPOC), 416<sup>th</sup> Engineer Command, 96<sup>th</sup> RSC, and 244<sup>th</sup> Engineer Battalion (Heavy).

## ***Service to the Industry***

### **Adjunct Instructor, University of Colorado/Colorado Mesa University Engineering Partnership CMU technical communication guest lecturer 2015-present**

Teamed with one other design consultant adjunct to develop, teach, and expand curriculum for *CVEN 4897 Professional Issues in Engineering*, a 400-level class for civil engineering students 2022-2024. Topics range from communication, ethics, finance, professional licensure, risk management, project management, preparing/reviewing proposals, sustainability, and numerous other soft skill topics crucial to success in today's private or public sector engineering environment. Topics evolve from semester to semester based on university, student, and industry feedback.

David also guest lectures at CMU engineering classes focusing on communication, pavement design, and cost estimation.

### **Engineer Mentor, Engineers Without Borders, CMU chapter 2021-present**

Mentor, coach, assist, and travel with teams of students in remote Ecuador. Helped the new CMU EWB team apply for, design, and execute the club's very first remote project sponsored by the larger EWB national and international organization. The student club's first assessment trip to Ecuador was in 2023 with implementation of Phases One and Two in January 2024 and January 2025, respectively. David and the club are now designing and planning Phase Three for 2026. David helps to find the balance between mentoring and executing while challenging the students out of their comfort zones. The 2024 Ecuador Story: <https://davestories.wordpress.com/2024/01/28/welcome-to-the-jungle/>

*Awarded CMU 2024 Grand Valley Leader of the Year from student nominations and student votes*

### **Mesa County, Colorado Planning Commissioner 2014-2017**

Appointed by Mesa County Commissioners, David reviewed development proposals, partnered with other Planning Commissioners to resolve development conflicts while working with full-time planning staff. Volunteer Planning Commissioners made recommendations to the Board of County Commissioners on a wide range of private and public development and land management issues. Due to the unique location and composition of Mesa County, this work often involved in-depth involvement with state and federal land managers and policies.

### **Communication Team Volunteer, Mesa County Search & Rescue 2006-2012**

County S&R, operating as a volunteer arm of the Sheriff's Department, uses a wide variety of specialized teams such as ground-based hiking teams, ATV teams, water rescue or technical rope rescue teams. The Communication Team served on every single mission and operated as an extension of the full-time Sheriff's Deputy Incident Commander. David and other Comm Teammates, all NIMS, ICS, and HAM/UHF radio certified, initiated, facilitated, documented, and closed out each S&R mission while coordinating communication across all various teams, deputies, and partner agencies.

**Writer, Havok Journal 2016-present**

(<https://havokjournal.com/author/david-hartmann/>)

David is one of scores of volunteer writers, mainly from the veteran and first responder community, who submit content on a wide variety of topics. Most of David's articles focus on navigating and succeeding in daily life as a veteran, engineer, and father.

From the site: *The Havok Journal serves as the Voice of the Veteran Community through a focus on current affairs and articles of interest to the public in general, and the veteran community in particular. We strive to offer timely, current, and informative content, with the occasional piece focused on entertainment. We are continually expanding and striving to improve the readers' experience.*

See also [www.davesstories.com](http://www.davesstories.com) for independent articles.