Bio/CV of Tammy Reeve

Job Titles:
- FAA Designated Engineering Representative (Systems/Software/Airborne Electronic Hardware)
- President of two Avionics related companies:
    - Patmos Engineering Services, Inc. (www.patmos-eng.com)
- Airworthiness Certification Services, LLC. (www.AirworthinessCert.com)

Credentials
- 34 years' experience in Avionics engineering and certification
- 24+ years' experience as certification authority, including:
    - FAA DER for SW and AEH (Level A full approval 23,25,27,29,33)
    - EASA Validation authority
    - Canadian Finding Authority for Military DO-254 and DO-178B/C projects
    - Boeing authorized representative (AR)
    - ODA unit member
- Trainer/Consultant/Certification Expert for:
    - DO-178B/C; supplements for Tool Qual DO-330 & MBD DO-331
    - ARP 4754A
    - DO-254
- Awarded contract to develop and train FAA personnel on Airborne Electronic Hardware (DO-254) via the FAA Academy

Education
M.S.E. – Master's in Software Engineering, Seattle University, Seattle, WA
B.S.E.E. – Bachelor of Science in Electrical Engineering (Computer engineering/Embedded design), (Tau Beta Pi), California State University, Fullerton, CA

Affiliations and Industry-Related Volunteer Work
- Chair for USA DO-254 Users group
- SAE Aerotech Airborne Hardware/Software Session coordinator/speaker (2013-Present)

- SAE working groups:
  - G34 – Artificial Intelligence in Aviation SG-4 US chair
  - S-18 UAS-safety ARP4754(X)
- RTCA working groups:
  - SC-240/EUROCAE WG-117 "Topics on Software Advancement" focusing on UAS software and software for low-risk applications and COTS (SG-1 secretary)
  - SC-205/EUROCAE WG-71 on DO-178C (model-based subgroup co-secretary)
  - SC-190/ EUROCAE WG-52 on Software Guidance (resulted in clarifications to DO-178B in DO-248)
- Member of FAA "Overarching Properties" Committee
- Member of RTCA Forum for Aeronautical Software (FAS)
- Tau Beta Pi Engineering Honor Society (started the chapter at Cal State Fullerton)

Awards

- **SAE 2020 J. Cordell Breed Award for Women Leaders**. This award recognizes women active in all sectors of the mobility industry who have achieved the best balance of life both professionally and personally.
- Named as one of "**The Most Influential Women in Aerospace**" (See her story in the award winning book "Flight Paths to Success: a Guide for Women in Aerospace and Aviation," recognized as Distinguished Favorite by the INDEPENDENT PRESS AWARD. Click here to find it on Amazon.)
- **SAE recognition** "For a Substantial Contribution as a Speaker" as well as "For a Substantial Contribution as a Session Organizer"

Additional Information

Tammy Reeve is CEO of two women-owned small businesses: Patmos Engineering Services, Inc and Airworthiness Certification Services LLC. Patmos employees 5 full-time personal and up to 10 contractors to provide full design services for hardware and software for avionics/safety-critical and commercial systems. While these companies are located in Washington State, the scope of these businesses is worldwide.

Tammy Reeve has been an FAA independent DER for over 24 years. Tammy Reeve is authorized as a Software and Airborne Electronic hardware (AEH, including PLDS, FPGAs, ASICs, PCBs) DER for levels A-E, for CFR 23,25, 27, 29 & 33 as well as many TSOs/ETSOs. Tammy is also authorized for military clearance projects, EASA validation programs, and Canadian military projects. As a certification expert, Tammy has worked on projects (in a training, consulting, and/or compliance auditing capacity) in Canada, Australia, New Zealand, Brazil, Japan, Germany, China, France, Sweden, UK, Belgium, Poland, Mexico, India, Singapore, Austria and Israel.

Tammy has been working in the aviation field for over 34 years. Prior to her certification focus, her engineering work experience included writing hardware test drivers and PLD design at Unisys Corporation, and embedded software design for GE Aerospace and Avtech Corporation.

In a certification capacity, she has worked on aviation equipment, for both commercial and military programs, including:

- Part 23 and 25 Flight controls
- Military Jet Flight Control systems
- Autopilot
- GPS
- Terrain Awareness
- Radios
- Display systems
- SELCAL
- Lighting
- Entertainment Systems
- Engine Controls
- APU
- Wastewater systems
- Braking systems
- Wipers
- Anti-icing
- Fuel pumps
- Nose Wheel steering
- Emergency lighting
- Passenger Address Systems
- Door controllers
- Data Link Systems
- Multi-Function Displays
- Heads Up Systems
- Camara Systems
- Fuel indicators
- Piston Engines
- Jet Engines
- Electric Motors
- Fly-by -Wire systems
- Hoist system controllers
- Helicopter Rotor monitor systems
- Helicopter vibration controller systems
- Helicopter flight controls
- and many more! (See FAA DER consulting Directory for all delegations and systems)

In addition to DER work, for the length of her career, Tammy has been a very active member in numerous industry committees that shape certification policy (see "Volunteer Work" above for details). She believes that involvement in these committees is a way to both grow in her own knowledge and to give back what she has learned through her vast experience.

Tammy has recently been growing her software/hardware certification expertise into the areas of UAS compliance (VTOP), cyber security, and artificial intelligence.

Tammy's personal interests include her family (including two adult children), friends, gardening, boating, and discovering new places.