Patrick J. Egan

SECURITY CLEARANCE: DoD TOP SECRET

CERTIFICATIONS

FAA Part 107
OSD/USSOCOM SSP Navair 4.5x. Certified Training Instructor and Operator for PGSS

CAREER PROFILE

2016 – 2018 TV and Motion Picture Drone Production Professor at the Academy of Art University, San Francisco
2010 – Managing partner at sUAS News www.suasnews.com Drone TV, Podcast, Small Unmanned Systems Business Exposition
September 2011– 2013: Senior Flight Chief U.S. Army SMDC Battle Lab Aerostat Test-bed Operations
January 2010 – March 2011 Instructor, OSD/USSOCOM NAVAIR 4.5x Special Surveillance Project (C4ISR)
2009 – 2011: AUVSI, UAS Airspace Advocacy Committee
2004 – 2014: Director of Government Programs, RCAPA
2003 – 2007: Sky-Borg Aerial Photography
1996 – 2009: CEO, Hammers Inc.

CONTRIBUTIONS TO THE RPAS COMMUNITY

- **Member, FAA Beyond Visual Line Of Sight (BVLOS) Action Team**
- **Small Unmanned Systems Business Exposition (2013, 2014, 2015, 2016)**
- Host and executive producer of the sUAS News Podcast Series and Drone TV
- President, Silicon Valley Chapter of the AUVSI (Association for Unmanned Vehicle Systems International) three years
- **Contributor, articles for BBC, National Geographic, The National Journal, The New York Times, The New Yorker Magazine, Reuters, Huffington Post. Fox Business Channel, Bloomberg, Cambridge University Press etc.**
- Program Moderator for UAS West 2013 (San Diego, CA) focused on opportunities for UAS (Military, Civil and Commercial.)
- Speaker at UAS West 2012 (San Diego, CA) focused on opportunities and challenges facing the UAS markets (Military, Civil and Commercial).
- Propose amendment for H.R.658 – FAA Reauthorization and Reform Act of 2011.
- **UAS white paper contributor. White House Office of Science and Technology Policy.**
- Speaker at UAS 2008/2009 (Paris, France). The presentation focus was on injecting science into the airspace integration effort to representatives of global CAA's, aviation safety groups and military.
- Completed sUAS ARC recommendation submitted to the FAA.
- Facilitated meetings consisting primarily of NASA engineering personnel to make determinations on design parameters/capabilities and terminology for small-unmanned aircraft systems.
- Attended both the Airplane Owners and Pilot Association's (AOPA) Expo and Helicopter Association International (HAI) as a guest of the associations to speak with association principals. Topics for discussion were airspace integration and stakeholder cooperation for a safer NAS.
- Represent the U.S. as a member of the International Coordination Council (ICC). Make ongoing requested comments on the EUROCAE wg-73 working paper and primary source document UK CAA CAP 722.
- **RCAPA delegate for the FAA small unmanned aircraft system (sUAS), aviation regulatory committee (ARC).** Completed developmental assignment with other members of the association to strengthened our position and come into the process with recommendations and material(s) for reference. Coordinated presentations for meetings with government, industry and manned representatives to facilitate resolution on complex operational and regulatory negotiations.

Professional Affiliations

AOPA
ASTM F-38 (Past)
AUVSI (Past)
EUROCAE sRPA Expert Group (Past)
HAI
International Coordination Council (wg-73)
Remote Control Aerial Photography Association
RTCA SC-203 (Past)
Navy League of the United States
UVS International

Competence and Expertise

- media relations
- assess and evaluate new technologies for unmanned aircraft system integration
- unmanned aviation airspace integration application professional with more than 11 years experience
- best practice development and implementation
- development and maintenance of positive relationships among Federal government agencies, industry representatives, and academia
- advise and consult on global airspace integration policy and regulations for business and academia
- instructing Navy personnel and civilian contractor Persistent Surveillance teams for OEF-A deployment
- managing projects involving National Airspace System (NAS), integration technology and multiple agency missions
- review, analyze and maintain government and private industry programs, budgets, and collateral materials with international effects

CAREER EXPERIENCE ABSTRACT

U.S. Army Space and Missile Defense Command Battle Lab Senior Flight Chief

Supervisor: Aerostat Test-bed Management Operations (ATMO) Phillip Manning

Program development, flight operations, crew resource management. Duties include, systems maintenance, component design and engineering, crew management and documentation development for high altitude future warfare projects.

- ✓ Operation and flight of the Aerostar TIF 23K /25K and Lindstrand GA-019 Aerostat Systems.
- ✓ Develop payload interface for testbeds.
- ✓ Coordinate with military and vendor customers.
- ✓ Train and manage flight operations personnel.
- ✓ Design and supervise fabrication of custom components for future warfare test projects.

OSD/A&C, USSOCOM NAVAIR 4.5x Program PGSS UAS Instructor

Supervisor: Training Deputy, Jason White

Develop curriculum and Instruct civilian contractor, Navy personnel, and coalition forces for OEF-A theater UAS operations ISR gathering and dissemination. Duties include, Officer and Executive training as well as classroom and field instruction. Create and developing course curriculum segments, program documentation and standards development. Duties also included instructing the following:

- ✓ Operation of the L3/ Wescam MX15i EO/IR sensor, including L# hand controller, menu set up, and maintenance
- ✓ Operation of the Sarnoff Visualizer and Manager software suite: Set up customization and uses of ancillary functions included in the suite as well as upgraded versions.
- ✓ MASINT (UTAMS) setup, installation, and operation
- ✓ Motorola 45600 – 48600 setup and operational training
- ✓ Ground School: system overview on two different spirals including the TCOM 22M Aerostar TIF 25K aerostats, common gondola, and the S-280 Ground Control Station
- ✓ System Integratio LAb (SIL): Simulate connectivity between UAS and GCS, system software suite, and troubleshooting
- ✓ Develop and instruct system specific COPOPS Vignettes and scenarios written, developed and simulated to resemble possible scenarios and events trainees were likely to experience while conducting system operations in Afghanistan
- ✓ Participate in developing systems operations and maintenance solutions from in theater reach back

Remote Control Aerial Photography Association

Supervisor: President, Rick Connolly

The RCAPA is a professional association of dedicated remote control aerial photographers. RCAPA provides operational safety guidelines, best business practices, networking and new technology information. My duties included:

- ✓ Represent RCAPA to staff from FAA Headquarters in the absence of the Public Affairs Officer. Coordinated four-person branch providing public information about the association's mission, policies, and operations to ensure timely and responsive presentation of sensitive issues of unmanned aviation policy and technology.
- ✓ Participate and represent the board and membership of RCAPA to the federal regulators and other airspace stakeholders in the small unmanned aircraft system (sUAS) on the Aviation Regulatory Committee (ARC).
- ✓ Act as the contact point for outreach to the manned aviation community (e.g. ALPA, AOPA, HAI), and also to current and potential sUAS operators. Developed a conceptual program of airspace stakeholder cooperation with the goal of mutual understanding and an end goal of facilitating a safer NAS for all.
- ✓ Participate as the RCAPA representative to the International Coordination Council (ICC). The ICC acts as an international advisory group that inputs and comments on the work of the EUROCAE wg-73 sub group 4 LUAS (Light Unmanned Aircraft Systems). The purpose of the ICC is to get a global cross flow of information between those with the same goals and objectives.
- ✓ Promoted and encouraged partnerships with businesses, education, and government organizations involving unmanned aviation activities.
- ✓ Develop and implement established systematic procedures including a written testing program to facilitate an industry based self-certification program for sUAS operators. The unique program was instrumental in making private liability insurance available for purchase by the RCAPA membership.

Sky-Borg Aerial Photography

- ✓ Build and deploy small unmanned aircraft systems for low altitude remote sensing.
- ✓ Base system was the example used for the small unmanned aircraft systems Aviation Regulatory Committee (ARC).
- ✓ Performed flight demonstrations along side AeroVironment and Insitu for entities such as MITRE, FBI, NASA and DHS.