
Douglas Yu

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Education

2021 — 2024
Dec

Master of Science in Aviation; Embry-Riddle Aeronautical University (ERAU), Daytona Beach, FL

- Specialization: **Aviation/Aerospace Safety Operation**, GPA 3.9/4.0.
- Relevant Courses: *The Air Transportation System, Human Factors, Crew Resource Management, Situation Awareness, Statistical Analysis, Accident Investigation and Analysis, Safety Management Systems, System Safety, Research Methods, etc*
- Member of *ERAU Aviation Safety Advisory Council* (2022 - 2025)
- Representative of the College of Aviation in *Graduate Student Council* (2022 - 2023)

2005 — 2009

Bachelor of Engineering in Automation; Beijing Union University (BUU), Beijing, China

- Relevant Courses: *Probability Theory & Mathematical Statistics, Signal & System Analysis, Automatic Control Theory & Management Psychology*. GPA 3.3/4.0
- Associate Director of Broadcasting Station at Beijing Union University (2007 - 2009)

Aviation Experience

Certificates

- **Commercial Pilot** (Instrument rated, ASEL, Part 141)
- **Advanced Ground Instructor (with Instrument rated)**
- *International Society of Air Safety Investigators* (ISASI, ERAU Chapter)

Activities and Membership

- **Secretary of Chapter 288** in *Experimental Aircraft Association (EAA)*
- Lifetime member of *Experimental Aircraft Association (EAA)*
- *Society of Aviation and Flight Educators (SAFE)*
- *Aircraft Owners and Pilots Association (AOPA)*

Flight Hours

- PIC Time 195
- Cross-country PIC Time 50
- Instrument Time 48
- Total flight Time 308

Work Experience

2024 — Now

Research Assistant; Cognitive Engineering Research in Transportation Systems (CERTS) Lab

- Working on FAA founded research projects: *Stress Management Training for ATC students, Scan Patterns of ATCs*, etc.
- Focus on human cognitive topics, situation awareness studies, pilot training, performance, driving, and human factors-related studies.

2015 — 2019

General Manager & Team Leader; Beijing Aligner LLC

- Oversaw most of the marketing development and led the sales team to develop new markets for the company's products.
- Led the development team to develop an *Electronic Flight Bag (EFB)* for general aviation pilots.

2012 — 2015	Engineer, Product manager & Evangelist; DFROBOT Beijing Team leader of the OpenDrone Project: An open source quadcopter drone project that includes a control board (named <i>flymaple</i>), a training simulator, and a ground station for the drone pilot. The code was merged into the <i>ArduCopter</i> project.
2011 — 2012	Embedded System Mentor & Specialist; BSEC Embedded Training Trained students in programming skills by using open source tools and helped them find an interrelated job.
2010 — 2011	Trainer & Developer (2010 - 2012); AKA Embedded Education - Trained Embedded programming skills to students and helped them find an interrelated job. - Developed new software and wrote handbooks and tutorials for training purposes.

Awards, Publications, and Other Experiences

Publications	Yu, D., & Dattel, A. R. (2025). The impact of electronic flight bags on general aviation pilots' situation awareness. <i>Proceedings of the Human Factors and Ergonomics Society Annual Meeting</i>. https://doi.org/10.1177/10711813251370740 Yu, D. (2024). <i>Assessing the influences of electronic flight bags on general aviation single pilots' situation awareness in various conditions</i>[Master's theses, Embry-Riddle Aeronautical University]. Scholarly Commons. https://commons.erau.edu/edt/852 Tong, H. (2013, January). <i>My opinions on Arduino Due</i>. WXD Hands-on Electronics Magazine (Aka. Radio Magazine), 46–47.
Research	Yu, D. (2024). <i>Preliminary research on attachment styles and flight training outcomes: A qualitative study</i>. Scholarly Commons. https://commons.erau.edu/db-srs/2023/poster-session-one/4/
Speech	Yu, D. (2025, Oct. 16). <i>The impact of electronic flight bags on general aviation pilots' situation awareness</i> [Conference session]. The 69th Human Factors and Ergonomics International Annual Meeting, Chicago, IL Tong, H. (2016). <i>FlightGear: An open-source flight simulator platform</i>. Conference for Open Source Coders, Users, and Promoters (COSUP), Taiwan. https://www.youtube.com/watch?v=ZRILeoWDRVw9

Notes: I delivered speeches, mentored, and wrote articles in China under the pseudonym of *Hui Tong*.

Mentor	Google Summer of Code Program for the Fedora Project (2017); Assisted and taught the students to participate in an open-source software development community. https://docs.fedoraproject.org/en-US/mentored-projects/gsoc/2017/ideas/index.html
Awards	Recipient of the EAA Chapter Service Award; Experimental Aircraft Association (2023 and 2024) Winner of the Outstanding Graduation Capstone Project Award; Beijing Union University (2009)

Extracurricular Activities

2022 — Now	Secretary; EAA Chapter 288 (Daytona Beach) ; Coordinate the Chapter's events and <i>Young Eagles Program</i>, and manage the Chapter's membership and documents.
2021 — Now	Amateur Radio Operator and Volunteer Examiner: American Radio Relay League (ARRL) and Amateur Radio Emergency Service (ARES) of Volusia County
2007, 2009	Internet Radio DJ (Internship) ; China National Radio (2007); Beijing People's Broadcasting Station (2009)