

Douglas Yu

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Education

- 2021 - Dec, 2024

Master of Science in Aviation; Embry-Riddle Aeronautical University (ERAU) **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
 - Representative of the College of Aviation in Graduate Student Council (2022-2023)
- 2005 – 2009

Bachelor of Engineering in Automation; Beijing Union University (BUU)
 - Relevant Courses: Probability Theory & Mathematical Statistics, Signal & System Analysis, Automatic Control Theory & Management Psychology. GPA 3.3/4.0

Aviation Experience

Certificates

- Commercial Pilot** (Instrument rated, ASEL, Part 141)
- Advanced Ground Instructor (with Instrument rated)**
- Pursuing the Certificate Flight Instructor

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

Activities and Membership

- Secretary** of *Experimental Aircraft Association (EAA) Chapter 288*
- Society of Aviation and Flight Educators (SAFE)*
- Aircraft Owners and Pilots Association (AOPA)*
- International Society of Air Safety Investigators (ISASI, ERAU Chapter)*

Work Experience

- 2024 - Present

Research Assistant; CERTS Lab at Embry-Riddle Aeronautical University
 - Work as a research assistant at the Cognitive Engineering Research in Transportation Systems (CERTS) Lab
 - Focus on situation awareness studies, pilots training, performance, 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 pilot.

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| 2012 - 2015 | Engineer, Product manager & Evangelist; DFROBOT Beijing <ul style="list-style-type: none"> • Developed and tested new product lines, and adopted the Scrum method to build a ground station for the drone pilot, quadcopter control board, and training simulator. • Promoted the company's new open hardware products and wrote articles on websites and magazines related to electrical engineering. |
| 2011 - 2012 | Embedded System Mentor & Specialist; BSEC Embedded Training <ul style="list-style-type: none"> • Trained programming skills undergraduate students by using open source technical and helped them find an interrelated job. |
| 2010 - 2011 | Trainer & Developer (2010 - 2012); AKA Embedded Education <ul style="list-style-type: none"> • 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 and Publications

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| Publications | <p>Yu, D. (2024). <i>Assessing the influences of electronic flight bags on general aviation single pilots' situation awareness in various conditions</i>. Scholarly Commons. https://commons.erau.edu/edt/852</p> <p>Tong, H. (2013, January). <i>My opinions on Arduino Due</i>. WXD Hands-on Electronics Magazine (Aka. Radio Magazine), 46–47.</p> |
| Research | <p>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/</p> |
| Speech | <p>Tong, H. (2016). <i>FlightGear: An open-source flight simulator platform</i>. Conference for Open Source Coders, Users, and Promoters (COSCUP), Taiwan. https://www.youtube.com/watch?v=ZRILeoWDRVw9</p> |

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

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| Mentor | Google Summer of Code Program for Fedora Project (2017); <ul style="list-style-type: none"> • Assisted and taught the students to participate in an open-source software development community, and aid them in solving difficult technical problems. |
| Awards | Chapter Service Award , 2023 and 2024; Experimental Aircraft Association (EAA) The Outstanding Graduation Project Awards of 2009 ; Beijing Union University |

Extracurricular Activities

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| 2022 - Present | Secretary; EAA Chapter 288 (Daytona Beach) ; <ul style="list-style-type: none"> • Coordinate the Chapters events and <i>Young Eagles Program</i>, and manage the Chapter's membership and documents. |
| 2021 - Present | Amateur Radio Volunteer Examiner: Member of American Radio Relay League (ARRL) and Amateur Radio Emergency Service (ARES) |
| 2009 | Internet Radio DJ (Internship) ; Beijing People's Broadcasting Station |
| 2007 | Internet Radio DJ (Internship) ; China National Radio |
| 2007 – 2009 | Associate Director; Broadcasting Station of Beijing Union University |