

William Theodore Weldon

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EXPERIENCE

January 2022 - Present

PURDUE UNIVERSITY | WEST LAFAYETTE, IN

Aircraft Dispatcher and Flight coordinator

- Managed a team of twenty dispatchers in support of Purdue University's flight training operations.
- Facilitated communication between aircraft maintainers, flight operations, simulator maintainers, academic advisors, contracted flight schools, and software developers to ensure safe and efficient aircraft fleet utilization.
- Revised and expanded standard operating procedures to ensure safe and efficient aircraft dispatching and fleet tracking.
- Responsible for enacting an emergency response plan for accidents and incidents involving Purdue University aircraft or personnel

Sept 2021 – Dec 2021

PANERA BREAD | LAFAYETTE, IN

Baker

- Created dynamic timelines to ensure the quality baking of large quantities of baked goods each night
- Ensured a professional bake on over two dozen different items each night
- Provide communication between closing shift, opening shift, and overnight deliveries
- Performed nightly inventory audits on equipment and perishable goods
- Ensured a clean and professional baking environment

July 2016 – May 2021

PURDUE UNIVERSITY | WEST LAFAYETTE, IN

Graduate Teaching Assistant

- Produced original course material on a wide array of aviation topics for six university courses.
- Created a fleet management system to allow for the safe operation of over 22 unmanned aerial vehicles for training and research purposes.
 - Facilitating over 3,400 flight operations during the first 14 weeks of implementation
- Managed a team of undergraduates performing fleet management duties.
- Participated in national design competitions and provided multiple presentations as an invited speaker.
- Interfaced with multiple emergency management agencies within Indiana, to develop search and rescue research
- Performed simulated search and rescue operations
- Assisted with multiple search and rescue operations in North America

April 2016 – July 2016

REPUBLIC AIRWAYS | INDIANAPOLIS, IN

Engine Maintenance Records Auditor

- Maintained FAA compliant records for the Republic Airways aircraft fleet
- Interfaced between maintenance personnel and General Electric
- Performed regular audits on aircraft engine documentation

July 2015- Jan 2016

INDY JET | GREENFIELD, IN

Line Service Technician

- Developed aircraft parking and storage documentation
- Provided aircraft fueling, ground handling, and hangaring as well as maintained facilities and provided customer service
- Maintained a safe, compliant, and efficient FBO operation

EDUCATION

December 2017 **Master's of Science in Aviation Technology**

PURDUE UNIVERSITY | WEST LAFAYETTE, IN

- Research Focus: Unmanned Aerial Systems for use in aviation maintenance

- Minor: Unmanned Aerial Systems

SKILLS

- Programming Languages: Python, Visual Basic
- Technical Writing
- Communication
- Conflict Resolution
- Troubleshooting
- Teaching
- Project Planning
- Asset Management and Logistics
- Standard operating procedure development

Publications

- Kristoffer B. Borgen , Timothy D. Ropp & William T. Weldon (2021): Assessment of Augmented Reality Technology's Impact on Speed of Learning and Task Performance in Aeronautical Engineering Technology Education, The International Journal of Aerospace Psychology, DOI: 10.1080/24721840.2021.1881403
- Weldon, W. T., Hupy, J., Lercel, D., & Gould, K. (2021). The Use of Aviation Safety Practices in UAS Operations: A Review. The Collegiate Aviation Review International, 39(1).
- Weldon, W.T.; Hupy, J. Investigating Methods for Integrating Unmanned Aerial Systems in Search and Rescue Operations. Drones 2020, 4, 38.
- Weldon, W., Borgen, I. K., & Kozak, B. (2019, May). Investigating the effect of micro-quadcopter flight on UAS instruction. In 20th International Symposium on Aviation Psychology (p. 31).
- Weldon, W., & Kozak, D. (2017). Effects of Simulator Training for Unmanned Aerial Systems in Undergraduate Education. 19th International Symposium on Aviation Psychology, 190-195.

Presentations

- UAS Components and fleet management.
Hamilton County Emergency Management. Noblesville, IN | Fall 2020 (Invited Speaker)
- Augmented Reality Training Systems.
Airport Consultants Council | Washington D.C. | Summer 2020 (Invited Speaker)
- Starting a UAS program
Purdue University Road School | West Lafayette, IN | Fall 2019
- UAS Components, Operation, and Data products
Raisbeck Aviation Highschool | Tukwila, WA | Fall 2017 & Fall 2018
- Augmented Reality Training Systems
Purdue University SATT | West Lafayette, IN | Spring 2019
- IDHS Hazardous Waste Management UAS Workshop
Purdue University SATT | West Lafayette, IN | Spring 2019

Professional References

- Kaleb Gould, Associate Researcher, Flight Safety Foundation
- Timothy Ropp, Associate Professor of Practice, Purdue University