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### **EDUCATIONAL BACKGROUND**

Juris Doctor, 2006  
University of North Dakota School of Law  
Graduation With Distinction

Bachelor of Science, 2003  
University of North Dakota  
Summa Cum Laude, Honors  
Phi Beta Kappa

### **PROFESSIONAL EXPERIENCE**

Graduate Program Director, M.S. Aviation/PhD Aerospace  
University of North Dakota, Department of Aviation  
Grand Forks, ND 58201  
2017 to 2020

Associate Professor (tenured), Aviation  
University of North Dakota, Department of Aviation  
Grand Forks, ND 58201  
2007 to present

Courtesy Faculty Appointment, School of Law  
University of North Dakota, School of Law  
Grand Forks, ND 58201  
2018-2020

Courtesy Faculty Appointment, Space Studies  
University of North Dakota, Department of Space Studies  
Grand Forks, ND 58201  
2010 to present

Commercial Pilot  
UND JDO School for Aerospace Sciences  
Flight Instructor, Stage Check Pilot, and Aerobatic Team Coach  
2001-2003

### **LICENSURE**

License to Practice Law, North Dakota Supreme Court. 2007 to present.

License to Practice Law, Minnesota Supreme Court. 2007 to 2012.

Commercial Pilot, Federal Aviation Administration. 2000  
Total Time: approx. 2,250 (estimated total)

Certified Flight Instructor, Federal Aviation Administration. 2000  
CFI Time: approx. 1,800 (estimated total)

## **COURSES TAUGHT**

SPST 565 – Space Law.  
AVIT 526 - Drones and the Law.  
AVIT 512 – Aviation Environmental Concerns.  
AVIT 501 - General Issues in Aviation.  
AVIT 491 - Methods & Materials in Teaching Aviation.  
AVIT 485 - Aviation Capstone.  
AVIT 403 – Aviation Law.  
AVIT 389 - Aerobatics.  
AVIT 372 - Global Perspectives in Aviation History.  
AVIT 302 – Air Transportation.  
AVIT 222/245 – Instrument Flight Rules Regulations and Procedures.  
AVIT 102 – Introduction to Aviation.  
AVIT 100 - Aviation Orientation.  
HON 393 – Transportation Today and Tomorrow: Problems and Alternatives in modern transportation.  
HON 292 – The Peace Corps.

### Student Theses/Projects Advised

PhD: 5  
MS: 16  
Honors: 13

## **SERVICE**

### National

American National Standards Institute (ANSI) UAS Standardization Steering Committee.  
International Journal of Aviation, Aeronautics, and Aerospace Ad Hoc Reviewer.  
Royal Aeronautical Society Ad Hoc Reviewer.  
American Bar Association Annual Update Conference Planning Committee.  
International Aviation and Transportation Safety Bar Association UAS Rules Committee. University  
Aviation Association Collegiate Aviation Review. Editorial Review Board Ad Hoc Reviewer.  
National Academies Transportation Research Board AV030 (Aviation Environmental) Peer Reviewer.  
National Academies Transportation Research Board committee member.

### University

Honors Committee  
Graduate Committee  
Online and Distance Education Committee  
International Organization  
Small Group Instructional Development (SGID) consultant

### Department

Numerous standing & ad-hoc departmental committees

## **PUBLICATIONS**

### Books & Chapters

Bockly & Shyy, *Encyclopedia of UAS Engineering*. John Wiley & Sons., Ltd. (2016). Insurance as a Mission Enabler (chapter). Author: Joseph J. Vacek.

Williams, Waite, & Gordon, eds. *John F. Kennedy, History, Memory, Legacy: An Interdisciplinary Inquiry*. University of North Dakota. (2010). Chapter 9, Experiencing the Peace Corps. Authors: Robin David, Michael Beard, Cory Enger, Kathleen Gershman, Joe Vacek.

Vacek, Anderson, Marshall, VenHuizen & Watson, eds. *Aviation Law: Cases & Materials*. Kendall-Hunt Publishing Co. (2009). ISBN 978-0-7575-6000-2.

### Peer-Reviewed Publications

Joseph J. Vacek, *Counter UAS Applications Illegal Under 18 USC 32 are Justified When Using a Reasonably Defensible Counter UAS Strategy That Incorporates Risk and Compliance Categorizations*. (2018). North Dakota Law Review.

Joseph J. Vacek, *The Next Frontier in Drone Law: Liability for Cybersecurity Negligence and Data Breaches for UAS Operators* (2017). Campbell Law Review, Campbell School of Law.

Jeremy Straub & Joseph J. Vacek, *A Liability Model for the Operation of Unmanned Aerial Vehicles*. Journal of Aviation Law and Policy. (2016). Issues in Aviation Law and Policy, DePaul University College of Law.

Joseph J. Vacek, *Citizen Use of Small Drones for Media Purposes Under FAAs Current & Forthcoming Regulations* (2015). Journal of International Media and Entertainment Law.

Joseph J. Vacek, *Regulations, Laws, & Policies Regarding Remotely Sensed Data by Drones*. North Dakota Law Review (2014).

Joseph J. Vacek, *Introduction to Space Law: Why Space Law Matters*. Fall 2014 International Aviation and Transportation Safety Bar Association Annual Conference Proceedings.

Jeremy Straub, Joseph J. Vacek, *Reforming Regulation of Basic Research in Space Technology under ITAR* (2014). Journal of Space Law.

Joseph J. Vacek, John Nordlie, & Jeremy Straub, *Considering Regulation of Small Unmanned Aerial Systems*. Vol. 39 Issue 4 & 5 Air & Space Law, Sept. 2014.

Joseph J. Vacek, *ALJ Decision May Usher in Legal Use of Commercial Drones*. March 18, 2014 guest article in the Jurist.

Joseph J. Vacek, *Location, Duration, and Sophistication: A Proposed Three Pronged Test for Determining the Constitutionality of Warrantless Surveillance by Drones*. Fall 2013 International Aviation and Transportation Safety Bar Association Annual Conference Proceedings.

Joseph J. Vacek, *Process Oriented Guided Inquiry Learning (POGIL), A Teaching Method From Physical Sciences, Promotes Deep Student Learning In Aviation*. Fall 2011 Collegiate Aviation Review.

Joseph J. Vacek, *Civilizing the Aeronautical Wild West: Regulating Unmanned Aircraft*. 23 Air and Space Lawyer 3 (2011).

Joseph J. Vacek, *Big Brother Will Soon Be Watching--Or Will He? Constitutional, Regulatory, and Operational Issues Surrounding the Use of Unmanned Aerial Vehicles in Law Enforcement*. 85 N.D. L. Rev. 673 (2010).

Joseph J. Vacek & Al Frazier, *Unmanned Aerial Vehicles: Threat or Asset to Airborne Law Enforcement? Air Beat*—Journal of the Airborne Law Enforcement Association. September/October 2009.

Joseph J. Vacek, *Aerobatic Flight Training for U.S. Commercial Pilot Applicants: Should it be Mandatory?* 21 COLLEGIATE AVIATION REVIEW 1, (October 2003).

Paul D. Lindseth & Joseph J. Vacek, *Urinalysis Drug Testing within a Civilian Pilot Training Program: Did Attitudes Change during the 1990s?* 72 AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE 7 (April 2003).

## **PATENTS**

Joseph J. Vacek, *Unmanned Aerial Systems Detection and Mitigation*. U.S. Patent No. 10699585. June 30, 2020.

Joseph J. Vacek, *Unmanned Aerial Systems Automated Threat Assessment*. U.S. Patent Pending, July 2019

## **RESEARCH, GRANTS, AND CONTRACTS**

### Funded

*Summer Instructional Development Program Cluster Grant*. \$4,000 internal grant. Spring 2017 to Summer 2017.

*Faculty Instructional Development Committee Travel Grant*. \$909 internal grant. September 2011.

*Models of innovation & Best Practices in Teaching and Learning*. \$750 internal grant. June 2010.

*Weather Technology in the Cockpit*. Center for General Aviation Research (CGAR) (Federal Aviation Administration). \$176,679 federal external grant. January 2009 to April 2010. Stepped down from PI for health reasons.

*Summer Instructional Development Program*. \$3,000 internal grant. May 2009-July 2009

### Submitted, Not Funded

*Identifying and Assessing the Ethics and Norms of Autonomous Weapons Systems*. \$75,000 external grant. June 2017.

*Greenhouse Gas Emission Mitigation Strategies (GreenGEMS) for Civilian Pilot Training Programs*. \$10,580 private external grant; received Certificate of Endorsement (would have been funded had funding been available). March 2010.

*Identifying General Aviation Metrics within Joint Planning and Development Office (JPDO) Mission*. \$25,000 external grant. August 2008.

Black Gold Farms Unmanned Aerial Vehicle Potato Research Project. October 2008. Approx. \$10,000 Commercial Partner Matched Funds proposal.