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EDUCATION

- Iowa State University, USA, Ph.D., Agricultural and Biosystems Engineering (ABE), 2022
- Bangladesh Uni. of Engg. and Tech., Bangladesh, M.S., Water Resources Development, 2017
- Hajee Mohammad Danesh Sci. and Tech. Uni., Bangladesh, B.S., Agricultural Engineering, 2014

PROFESSIONAL EXPERIENCE

- Post-doc Research Associate, CCEE, Iowa State University, January 2023– Present.
- Graduate Research Assistant, ABE and CCEE, Iowa State University, 2017 – 2022.

SELECTED PUBLICATIONS

- **Sourav, M. A. A.,** Mahedi, M., Ceylan, H., Kim, S., Brooks, C., Peshkin, D., Dobson, R., & Brynick, M. (2022). Evaluation of Small Uncrewed Aircraft Systems Data in Airfield Pavement Crack Detection and Rating. *Transportation Research Record*, 0(0). DOI: 10.1177/03611981221101030
- **Sourav, M. A. A.**, Mahedi, M., Ceylan, H., Kim, S., Brooks, C., Peshkin, D., Dobson, R., Brynick, M., & DiPilato, M. (2022). Small Uncrewed Aircraft Systems-Based Orthophoto and Digital Elevation Model Creation and Accuracy Evaluation for Airfield Portland Cement Concrete Pavement Distress Detection and Rating. In *International Conference on Transportation and Development 2022* (pp. 168-180). DOI: 10.1061/9780784484371.016
- **Sourav, M. A. A.,** Ceylan, H., Kim, S., Brooks, C., Peshkin, D., Dobson, R., & Brynick, M. (2023). Use of Digital Elevation Model for Detecting Airfield Pavement Distress. In *International Conference on Transportation and Development 2023* (pp. 254-265). DOI: 10.1061/9780784484906.024
- **Sourav, M. A. A.**, Ceylan, H., Brooks, C., Peshkin, D., Kim, S., Dobson, R., Cook, C., Mahedi, M., & Jenkins, A. (2022). *Small Unmanned Aircraft System for Pavement Inspection* (No. DOT/FAA/TC-23/50). United States. Department of Transportation. Federal Aviation Administration. William J. Hughes Technical Center.
- **Sourav, M. A. A.**, Ceylan, H., Brooks, C., Peshkin, D., Kim, S., Dobson, R., Cook, C., & Brouillette, O. (2022). *Small Unmanned Aircraft System for Pavement Inspection: Task 4—Execute the Field Demonstration Plan and Analyze the Collected Data* (No. DOT/FAA/TC-22/35). United States. Department of Transportation. Federal Aviation Administration. William J. Hughes Technical Center.

- **Sourav, M. A. A.**, Ceylan, H., Brooks, C., Peshkin, D., Kim, S., Dobson, R., & Cook, C (2022). *Practical Lessons Learned from Planning, Collecting, Processing, and Analyzing Small Unmanned Aircraft System Data for Airfield Pavement Inspection.* (No. *DOT/FAA/TC-22/48*). United States. Department of Transportation. Federal Aviation Administration. William J. Hughes Technical Center.

CURRENT PROFESSIONAL ASSOCIATION

- Part 107 Remote Pilot — Certified Pilot
- American Society of Agricultural and Biological Engineers — Student Member
- American Society of Civil Engineers (ASCE) — Student Member
- ASCE UAS Committee — Student Member

UNDERGRADUATE ADVISING

- Nicholas Carinci, Department of Physics, Le Moyne College, LAUNCH-UAS REU Program 2022
- Olivia Brouillette, Department of Physics, ISU, LAUNCH-UAS REU Program 2021
- Robin Valle, Department of Aerospace Engineering, California State University, LAUNCH-UAS REU Program 2021