# Dr. Tworit Dash



10 July 1994



tworitdash@gmail.com

## Skill-set -

Research: Electromagnetics Theory, Radar Signal Processing, Analytical Problem Solving, Research Communication, Business Communication, Collaboration, Project Management, Technical Writing, Multilingual Programming: Matlab, Python, Ruby Simulation Env: CST Studio, FEKO

OS: macOS, Windows, FreeBSD, Linux (Debian, Fedora, OpenSUSE, Ubuntu, Raspbian)

## Extra-Curricular —

Speaker at Ruby conferences I spoke about IoT on several ruby conferences like Eurucamp 2014 (Germany), Euruko 2015 (Austria) and Deccan Ruby Conference (India)

Senior Manager @ Zairza - Zairza is the technical club of College of Engineering and Technology, Bhubaneswar.

Hobbies: Sketching, Blogging, Cooking, Cycling.

### Profile



Researcher: Electrical Engineer Delft University of Technology

Expertise in Atmospheric Remote Sensing and Electromagnetic The-

ory.

#### Work Experience

Aug'16-Aug'18: Calibration Engineer

RBEI, Bangalore

At Bosch, I worked as an OBD Calibration Engineer for passenger cars for Indian Original Equipment Manufacturers.

#### [Education]

Sep'20-Feb'25: Doctor of Philosophy Delft University of Technology Thesis: "On Doppler Processing for Fast Scanning Weather Radars". Key Publications:

> [1] T. Dash, H. Driessen, O. Krasnov, and A. Yarovoy, "Doppler Spectrum Parameter Estimation for Weather Radar Echoes Using a Parametric Semi-analytical Model," IEEE Trans. Geosci. Remote Sens., vol. 62, pp. 1-18, 2024, doi: 10.1109/TGRS.2023.3338233. [2] T. Dash, H. Driessen, O. A. Krasnov, and A. Yarovoy, "Counter-Aliasing Is Better Than De-Aliasing: Application to Doppler Weather

> Radar With Aperiodic Pulse Train," IEEE Trans. Geosci. Remote Sens., vol. 62, pp. 1-17, 2024, doi: 10.1109/TGRS.2024.3438567.

Sep'18-Aug'20: Master of Science

Delft University of Technology

Thesis: "Computationally Efficient Conical Horn Antenna Design, a theoretical design approach ". Key publications:

[3] T. Dash, "Computationally Efficient Conical Horn Antenna Design," Delft University of Technology, Tech. Rep., 2020. [On-Available: http://resolver.tudelft.nl/uuid:190e87c7-9309line1. 470f-a821-43b7c3b8867b

[4] T. K. Dash, D. Prinsloo, and A. Yarovoy, "Radiation from the Openended Over-moded Cylindrical Wavequide," 2024, doi: 10.46620/UR-SIATRASC24/QEUT4611.

Aug'12-May'16:Bachelor of Technology College of Engineering and Technology, Bhubaneswar

Electronics and Instrumentation, C-GPA: 8.94/10.

#### **Achievements**

Aug'2020 cum laude Master of Science

> Graduated cum laude from master program in Telecommunication and Sensing systems and master thesis at The Netherlands Institute for Radio Astronomy (ASTRON) and TU Delft.

Feb'2016 Merit Award Bachelor of Technology

Alumni merit award for best final year undergraduate student.

### [Languages]

Odia (Native), English (Native/ Bilingual), Hindi (Professional), Sanskrit (Beginner).