# Ramin Ala

## Electrical Engineer

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#### **EDUCATION**

• Ph.D. 2019 - 2023**Electrical Engineering** University of New Brunswick New Brunswick, Canada **Thesis:** Efficient and Ultra Low Mass Harmonic Radar Transponders for Insect Tracking Applications • M.Sc. 2007 - 2010**Electrical Engineering** K. N. Toosi University of Technology Tehran, Iran • B.Sc. 2002 - 2007**Electrical Engineering** University of Isfahan Isfahan, Iran WORK EXPERIENCE • Iranian Space Research Center, Tehran, Iran 2016 - 2018Senior RF Designer • Ertebatat Baregheh Pardis, Tehran, Iran 2014 - 2016Senior RF Designer • OTS, Tehran, Iran 2010 - 2014RF and Microwave Engineer PROJECT PORTFOLIO and SKILLS

#### • Design expertise:

 Design and implementation of the RF Section of Superheterodyne Receivers and Transmitters, encompassing various frequency bands, including X-band and Ku-band..

- Design and implementation of the Microwave passive devices (Filters, Antenna, Power dividers and directional couplers, in wide ranges of frequencies and structures).
- Design and implementation of Microwave active devices (Power amplifiers, Frequency Synthesizer).
- Design and implementation of Electronic circuits (Voltage regulators, Power amplifier bias controller, ...).
- Testing and troubleshooting the wide range of devices.

#### • Lab expertise:

- All electronic lab instruments (Oscilloscope, Power supplies, Multimeter).
- All Microwave and RF lab instruments (Vector Network Analyzer, Spectrum Analyzer, . . .).
- Antenna measurements

#### • Data Science:

Proficient in data manipulation and analysis using R packages.

#### SOFTWARE PROFICIENCY

#### • Industrial tools:

- Ansys HFSSCSTAltium Designer
- PathWave Advanced Design System (ADS)
  AWR Microwave Office

#### • Programming and other Tools:

- R MATLAB
- LaTaX Git

### **JOURNAL PUBLICATIONS**

- 1. R. Ala, C. D. Rouse and B. G. Colpitts, "An Extra Low-Mass Harmonic Radar Transponder for Insect Tracking Applications," in *IEEE Transactions on Radar Systems*, vol. 1, pp. 146-154, 2023, doi: 10.1109/TRS.2023.3286270.
- 2. R. Ala, B. Ahmadi, "A comparative study of high-power low-pass filters for satellite communications," *Microw Opt Technol Lett*, 2019; 61: 1968-1971. doi: 10.1002/mop.31783.

#### REFERENCES

1. Dr Chris Rouse	Professor at UNB	chris.rouse@unb.ca
2. Dr Bruce Colpitts	Professor at UNB	colpitts@unb.ca
3. Dr Brent Petersen	Professor at UNB	Brent.Petersen@unb.ca