

Ramin Ala

Electrical Engineer

+1 506-262-9550

ramin.ala@gmail.com

LinkedIn

Website

780 Montgomery St., Fredericton, NB, Canada



SUMMARY

I am an electrical engineer with eight years of industrial experience between 2010 and 2019. After that, I joined the University of New Brunswick as a Ph.D. student and research assistant as well as working as a teaching assistant. During my doctoral studies, I gained valuable experiences in data science. I completed two relevant courses with outstanding grades (earning A+ in both), and a section in my thesis focused on the application of data science. I am currently in the final stages of defending my Ph.D. and actively seeking employment opportunities.

Please feel free to visit my website, where I am gradually adding more information. You can find it here.

EDUCATION

- Ph.D.** 2019 – 2023
University of New Brunswick
New Brunswick, Canada
Thesis: *Efficient and Ultra Low Mass Harmonic Radar Transponders for Insect Tracking Applications*
- M.Sc.** 2007 – 2010
K. N. Toosi University of Technology
Tehran, Iran
- B.Sc.** 2002 – 2007
University of Isfahan
Isfahan, Iran

WORK EXPERIENCE

- **Iranian Space Research Center** 2016 – 2018
Tehran, Iran
Senior RF Designer
- **Ertebatat Baregheh Pardis** 2014 – 2016
Tehran, Iran
Senior RF Designer
- **OTS** 2010 – 2014
Tehran, Iran
RF and Microwave Engineer

SKILLS

- **Design expertise:**
 - Designing Electronic circuits
 - Designing Microwave active and passive devices
 - Testing and troubleshooting the wide range of devices, up to the frequency of 26.5 Hz
- **Lab expertise:**
 - All electronic lab instruments
 - All Microwave and RF lab instruments (Vector Network Analyzer, Spectrum Analyzer, . . .)
 - Antenna measurements in Anechoic Chamber
- **Data Science:**

Proficient in data manipulation and analysis using R and Python packages, ensuring efficient work-flows. I have some experience in

SOFTWARE PROFICIENCY

- **Some of the industrial tools:**
 - Computer Simulation Technology (CST)
 - PathWave Advanced Design System (ADS)
 - Altium Designer
 - Ansys HFSS
- **Programming and other Tools:**
 - R (Programming language)
 - LaTaX
 - MATLAB

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 Berent Petersen	Professor at UNB	Brent.Petersen@unb.ca