

Nim Rod CCOILLO RAMOS

PhD Student in Electrical Engineering at The University of Oklahoma
M. Sc.in Digital Signal and Image Processing at UNI, Peru
B. Sc.in Electronics Engineering at UNI, Peru (Class of 2015)



PERSONAL INFORMATION:

Place / Date of birth: Marcona (Peru), May 20th, 1994
Phone number: (+51) 983207736
E-mail address: nccoillo@ou.edu (Institutional address)
ccoillo94@gmail.com (Personal address)

PERSONAL OBJECTIVE AND CHRONOLOGY:

To master academic research through a PhD program related to electronic engineering with focus on electromagnetism, in order to acquire advanced knowledge on its diverse fields and engineering applications. Hence, to develop a career on scientific research, increasing and consolidating my professional growth, the creation and innovation of applications and solutions in engineering.

Jan 2019-now: Pursuing the PhD Program in Electric Engineering with focus on Electromagnetic Antenna Modeling at the University of Oklahoma, Norman Campus (2019-2023)

June 2016-Dec. 2018: Master program on Digital Signal and Image Processing at the National University of Engineering (UNI, Peru) under the financial support by Cienciactiva.
M. Sc. Thesis defended on Dec. 19th, 2018 and approved with distinction.

March-Aug. 2017: Academic internship at the State University of Campinas (UNICAMP, Brazil) with a training program on radar image processing on Bradar Industrias.

Aug. 2011-Dec. 2015: Undergraduate program on Electronic Engineering at UNI.

EXPERIENCE ON SCIENTIFIC RESEARCH APPLIED TO ELECTRONIC ENGINEERING:

Research assistant in INICTEL UNI

Application area: Radar signal and image processing, electromagnetics.

Objectives:

- ✓ To research and evaluate electromagnetic techniques for inverse problems.
- ✓ To analyze and integrate radar signals and image processing techniques.
- ✓ To research about FDTD and FEM to develop geo-electric models.

Achievements:

- ✓ Acquisition of knowledge on electromagnetic inverse problems providing a 1-week training on electromagnetic techniques for inverse problems.
- ✓ Consolidation of concepts of computational electromagnetics and radar image processing applied to ground penetrating radars.

June 2018-
Dec. 2018:

Master of Science Program on Digital Signal and Image Processing (DSIP)

Application area: DSIP with focus on SAR image processing.

Objectives:

- ✓ To get an outstanding formation on signal and image processing techniques.
- ✓ To develop and enhance scientific research applied to solving a national problem.

Achievements:

- ✓ First place on the student's merit during its four academic semesters.
- ✓ Conclusion and defense of the dissertation "Estimation of changes in Amazon forests through the processing of synthetic aperture radar images of X and P bands". The M. Sc. diploma is in progress (administrative paperwork).
- ✓ Preparation of two scientific articles, which are going to be submitted soon.

June 2016-
Dec. 2018:

Academic internship at UNICAMP and BRADAR Industries

Application area: Electromagnetics, radar signal and image processing.

Objectives:

- ✓ To pursue an academic semester at the university, taking a course of advanced electromagnetics.
- ✓ To get knowledge on radar image processing techniques for enhancement, through a weekly training on BRADAR Industries.

Achievements:

- ✓ Academic semester concluded with the maximum literal score.
- ✓ Training successfully finished with honor.

March 2017-
August 2017:

Pre-professional internship at INICTEL UNI (12/22/2015)

Application area: Electronic Instrumentation, radio-propagation and antennas.

Objectives:

- ✓ To implement servomechanisms in an electromagnetic-compatibility testing table (knowledge of electronic instrumentation -sensors)
- ✓ To study the HFSS environment, which is related to radiofrequency devices.

Achievements:

- ✓ Learning of printed-electronic-circuit design software, and other related to PIC programming. Learning of printed-circuit welding.
- ✓ Fast learning of the HFSS environment, and consolidation of technical aspects about implementation technologies for radiofrequency antennas.

Dec. 2015-
May 2016:

MERITS AND COMPLEMENTARY FORMATION:

Obtained
merits:

- ✓ Second place and top fifth in the undergraduate studies, with a total of 15 students in the 2015-2 graduation. Furthermore, it was possible to finish the academic plan in only 9 academic semesters, instead of 10.
- ✓ Successful completion of the American English language program at ICPNA, with high score. Besides, in the international exam MET (2016), the level C1 in Reading comprehension was gotten.
- ✓ Honored as "Hijo Predilecto de Ica" in 2009, due to the prominent performance in diverse regional and national math contests done during high school.

Complementary
Formation:

- ✓ Languages:
 - English (B2/C1): studied at ICPNA (2013-2016), certified with TOEFL iBT (March 2018, scores: R: 24, L: 18, S: 20, W: 25) and MET (Feb. 2016, L: B1, R: C1)
 - Portuguese (B1): studied at the PUCP language institute, and language consolidated in the internship in Brazil (6 months).
 - German (A2.1): Self learning for 1 year.
- ✓ Software:

MATLAB, Microsoft Word, Excel, Power Point:	Advanced user
HFSS, Radio Mobile, AutoCad, Rockwell software (PLC)	User
Other products of Microsoft Office, <i>Net Beans</i> (Java):	User
Eagle (Design of printed circuits), MPLAB (PIC):	User
- ✓ Participation in events and conferences:

Course of Radar Applications and Phase Array Antennas	July, 2018
Seminary "Digital network and related solutions, new technologies (...)"	March, 2016
4 th International Congress of Telecommunications-TELCON UNI 2015	October, 2015
Line-tracking-robot contest in 1 st EXPOTIC-2012	June, 2012