MARTIN ROA VILLESCAS

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EDUCATION Ph.D. candidate (ongoing) Feb 2018 - present Eindhoven University of Technology (TU/e), The Netherlands 5-year Ph.D. Educational Program M.Sc. in Embedded Systems Sep 2011 - Aug 2013 Eindhoven University of Technology (TU/e), The Netherlands - *GPA*: 8/10- Thesis: 3D Face Reconstruction using Structured Light on an ARM-based Hand-held Device **B.Sc** in Electronic Engineering Aug 2005 - Jul 2010 Universidad Nacional de Colombia (UNAL), Sede Manizales - GPA: 4.6/5.0- Thesis: Design and implementation of a classifier of common bird species at the Rio Blanco reserve (Manizales, Colombia) on a mobile device EXPERIENCE University Teacher Nov 2020 - present Eindhoven University of Technology (TU/e), The Netherlands Courses: Autonomous Vehicles (5AID0), Embedded Visual Control (5LIA0) Teaching Assistant Nov 2018 - present Eindhoven University of Technology (TU/e), The Netherlands Courses: Computation I (5ELA0), Intelligent Architectures (5LIL0), Embedded Systems Laboratory (5LIB0) Nov 2013 - Jan 2018 Embedded Systems Designer Philips Research, Eindhoven, The Netherlands Design, implementation, and documentation of embedded software/electronics Research Assistant Aug 2009 - Nov 2009 Universidad Nacional de Colombia (UNAL), Sede Manizales *Project:* Multiple classifier systems for the automatic recognition of seismic events at the Cerro Machín-Cerro Bravo volcanic complex Teaching Assistant Aug 2008 - Jun 2009 Universidad Nacional de Colombia (UNAL), Sede Manizales Courses: Analog Electronics I, Electronic Design HONORS AND DISTINCTIONS

Huygens Scholarship Dutch Ministry of Education, Culture and Science Full M.Sc. scholarship at Eindhoven University of Technology (TU/e)	Sep 2011 - Aug 2013
Best GPA UNAL, Sede Manizales Best GPA $(4.6/5.0)$ in the B.Sc. in Electronic Engineering (class 2005-2010)	Aug 2005 – Jul 2010

PAES Scholarship

Aug 2005 - Jul 2010

UNAL, Sede Manizales

Full B.Sc. scholarship at UNAL, Sede Manizales

National Robot Olympics

Sep 2009

Universidad Pontificia Bolivariana, Sede Medellín First place in the line-follower category

UNAL Line Follower Robot Contest

May 2009

UNAL, Sede Manizales First place

PUBLICATIONS

- M. R. Villescas, P. W. A. Wijnings, S. Stuijk and H. Corporaal, "Partial Evaluation in Junction Trees," in 2022 25th Euromicro Conference on Digital System Design (DSD), Maspalomas, Spain, 2022, pp. 429-437, doi: 10.1109/DSD57027.2022.00064.
- M. Roa Villescas, B. de Vries, S. Stuijk, and H. Corporaal, "Real-time Audio Processing for Hearing Aids using a Model-based Bayesian Inference Framework" in Proceedings of the 23th International Workshop on Software and Compilers for Embedded Systems (SCOPES '20). Association for Computing Machinery, New York, NY, USA, 82–85, 2020. https://doi.org/10.1145/3378678.3397528
- B. Ergül, T. van de Laar, M. Koudahl, M. Roa Villescas, and B. de Vries, "Learning Where to Park". Poster session presented at 1st International Workshop on Active Inference (IWAI 2020), Ghent, Belgium.
 https://biaslab.github.io/pdf/iwai2020/learning-where-to-park.pdf
- M. Roa Villescas, F. van Heesch, and G. de Haan, "3D Face Reconstruction using Structured Light on a Hand-held Device". Master's Thesis, Eindhoven University of Technology, Eindhoven, The Netherlands, August 2013. https://pure.tue.nl/ws/files/46965337/777871-1.pdf;3D
- M. Roa Villescas and M. Orozco Alzate, "Bird in the Hand: An Electronic Field Guide App for Bird Watchers," in IEEE Potentials, vol. 31, no. 2, pp. 8-14, March-April 2012. http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6169888&isnumber=6169882

LANGUAGES

Spanish: NativeEnglish: FluentDutch: Fluent

REFERENCES

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