

## **Ljubodrag Boskovic**

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## **EDUCATION**

- Dipl. Eng. in Electro-Mechanical Engineering, April 2010, University of Belgrade, Serbia.  
Thesis title: *Design of Remote Controlled Amphibious Vehicle and Realization of Powertrain*.  
Advisor: Prof. Miodrag Zikic
- Master of Science Graduate Student in the Department of Electrical, Computer and Energy Engineering, University of Colorado Boulder (expected graduation Spring 2022)

## **EMPLOYMENT**

- *Professional Research Associate*, University of Colorado in Boulder, October 2016 – present
- *Head of Mechanical Maintenance in Concentrator Plant*, Copper Mines Bor, Serbia, January 2015-October 2016
- *Head of Electro-Mechanical Maintenance in Concentrator plant*, Copper Mines Bor, Serbia, November 2014- January 2015
- *Site Manager for Reconstruction of Concentrator Plant*, Copper Mines Bor, Serbia, October 2012- November 2014
- *Chief Mechanical Engineer for Reconstruction of Concentrator Plant*, Copper Mines Bor, Serbia, December 2011- October 2012
- *Mechanical Maintenance Engineer for Crushing, Screening and Conveyor Transport System*, Copper Mines Bor, Serbia, January 2011-December 2011
- *Mechanical Maintenance Engineer for Excavators and Drills, Open Pit Area*, Copper Mines Bor, Serbia, October 2010- January 2011
- *Process Engineer*, Grand Engineering Bor, Serbia, Jun 2010-October 2010

## **PUBLICATIONS**

### **Published Journal Papers**

- C. Hernandez, **Lj. Boskovic**, M. Elmansouri, M. Ignatenko, and D.S. Filipovic, *Fixed and Steerable Beam Dual-Polarized Lens Antenna with High Tx to Rx Isolation*, IEEE Transactions on Antennas & Propagation, (In-review).
- S. Yen, **Lj. Boskovic**, and D.S. Filipovic, *Co-circularly Polarized Van Atta Array Enabled by Quasi-monostatic STAR Antenna*, IEEE Transactions on Antennas & Propagation, (In-review).
- M. Elmansouri, G. Friedrichs, **Lj. Boskovic**, and D.S. Filipovic, *An X- through Ka-band Thinned All-Metal Vivaldi Phased Array*, IEEE Transactions on Antennas & Propagation, (In-review).
- C. Andrews, **Lj. Boskovic**, and D.S. Filipovic, *Characterization of Flat Radomes for 18-45 GHz High-Power Horn Antennas*, IEEE Transactions on Antennas & Propagation, (In-review).
- P. V. Prasannakumar, M. A. Elmansouri, **Lj. B. Boskovic**, M. Ignatenko, and D. S. Filipovic, *Wideband Quasi-Monostatic Simultaneous Transmit and Receive Reflector Antenna*, IEEE Microwave & Wireless Propagation Letters, Vol. 68, No. 4, pp. 2630-2637, June. 2019.
- A. Samaiyar, A. H. Abdelrahman, **Lj. Boskovic**, D. S. Filipovic, *Extreme Offset-Fed Reflectarray Antenna for Compact Deployable Platforms*, IEEE Microwave & Wireless Propagation Letters, Vol. 18, No. 6, pp. 1139-1143, April. 2020.

- S. Manafi, **Lj. Boskovic**, D.S. Filipovic, *H-Plane Narrow-Wall Double-Ridge Waveguide Coupler in V- and W Bands*, IEEE Microwave & Wireless Propagation Letters, Vol. 28, No. 4, pp. 296-298, January 2019.
- N. Jastram, M. AlTarifi, **Lj. Boskovic**, D. S. Filipovic, *On the Split-Block Realization of Millimeter-Wave Ridge Waveguide Components*, IEEE Microwave & Wireless Propagation Letters, Vol. 28, No. 4, pp. 296-298, Apr. 2018.

#### **Peer Reviewed Conference Papers Published in Conference Proceedings**

- G. Friedrichs, **Lj. Boskovic**, and D.S. Filipovic, *Design of Dual-Polarized Log-Periodic Antenna with Embedded Balun Impedance Transformer*, IEEE APS/URSI 2020, Remote Conference Presentation.
- E. G. Tianang, M. A. Elmansouri, **Lj. Boskovic**, and D. S. Filipovic, *Design of a Dual-Circularly Polarized X-Band Active Phased Array Based on a Balanced-Diplexer*, IEEE International Symposium on Phased Array System & Technology (PAST), 2019.
- A. Samaiyar, P. V. Prasannakumar, M. A. Elmansouri, **Lj. Boskovic**, D. S. Filipovic and S. Rao, *Phased Array Antenna for Bi-Static Simultaneous Transmit and Receive (STAR) Systems*, IEEE International Symposium on Phased Array System & Technology (PAST), 2019.
- E. G. Tianang, M. A. Elmansouri, **Lj. Boskovic** and D. S. Filipovic, *Balanced-Diplexer Frequency Division Duplex Subarray for X-band Phased Array*, IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, 2019
- P. V. Prasannakumar, A. Samaiyar, M. A. Elmansouri, **Lj. Boskovic**, and D. S. Filipovic and S. Rao, *Bi-Static Simultaneous Transmit And Receive (STAR) Antenna Array System*, IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, 2019
- M. A. Elmansouri, E. A. Etellisi, **Lj. Boskovic**, D. S. Filipovic, *Wideband Spectrum Sensing and Direction Finding Antenna Subsystem*, IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (APWC), 2019.
- **Lj. Boskovic**, M. Ignatenko, D. S. Filipovic, *Low-Cost Pressure/Temperature Measurements of the Wideband Antenna*, IEEE Antenna Measurement Techniques Association, November 2018
- M. Ignatenko, **Lj. Boskovic**, D. S. Filipovic, *Coupling Suppression and Measurements on a Millimeter Wave Cylindrical Repeater*, IEEE Antenna Measurement Techniques Association, November 2018
- J. Cazden, M. Al-Tarifi, **Lj. Boskovic**, Dejan S. Filipovic, *A W-Band Curved Aperture Horn Antenna with Consistent Radiation Patterns*, IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, July 2018
- B. F. Allen, **Lj. Boskovic**, D. S. Filipovic, *Antenna Decoupling with a 3D Printed Tapered Ribbed Structure*, IEEE Global Symposium on Millimeter waves, May 2018
- J. Cazden, M. Altarifi, **Lj. Boskovic**, D. S. Filipovic, *W-band Amplitude-only Direction Finding with Curved-Aperture Horn Antennas*, IEEE Global Symposium on Millimeter waves, May 2018
- **Lj. Boskovic**, M. Ignatenko, C. K. Andrews, R. Hasse, D. S. Filipovic, *Electro-mechanical analysis of flat radomes for airborne antennas at K/Ka/V band*, IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, July 2017
- C. Andrews, R. Hasse, **Lj. Boskovic**, N. Jastram, D. S. Filipovic, *On the Use of Radome Materials for High-Power, Wideband, Millimeter Wave Antennas*, International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, July 2017
- S. Sanghai, **Lj. Boskovic**, N. Jastram, D. S. Filipovic, *Assembly strategies for millimeter wave horn antennas*, International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, July 2017

### **Other published works**

- Ljubodrag **Boskovic**, *Project of Hydro-Transport System for Copper Mine Cerovo and Water supply Pump Station*, Copper Mines Bor, Serbia, 2014
- **Ljubodrag Boskovic**, *Design and Realization of steel support structure for crusher Norberg HP5*, Copper Mines Bor, Serbia 2011
- M. Zikic, **Lj. Boskovic**, *MILITARY ROBOTS "Remote-controlled model tank with cannon caliber 9mm"*, Military Technical Institute Belgrade, Serbia, May 2009
- M. Zikic, M. Strak, Lj. Boskovic, *"DRIVE OF AMPHIBIOUS MILITARY VEHICLE"*, Regional center for talents Bor, Serbia 2003

### **AWARDS AND HONORS**

- Best student in the class of 2010, University of Belgrade, Technical Faculty Bor
- Invited to exhibit student work on military robotics, the fair arms and military equipment "Partner2009", in cooperation with the Military Technical Institute Belgrade, Serbia, May 2009
- Second place in competition for the 3D computer simulation of machines and mechanical design using Autodesk Inventor software package, OSA Ingeneering Belgrade, Serbia, December 2009
- Serbian national competitions in physics, Kladovo, Serbia, 2001
- Serbian regional competitions in physics, Bor, Serbia, 2003