Aleksandar Paunoski graduated from the Faculty of Electrical Engineering in Skopje with a Bachelor in Power Engineering in 2004. He started his postgraduate studies in 2005 at the Faculty of Electrical Engineering and Information Technologies, focusing on Transmission and Distribution Systems, funded by the TEMPUS project. In 2008, he defended his master's thesis on the Optimization of Voltage and Reactive Power Conditions in the Power System of the Republic of Macedonia.

His professional career began in 2006 at MEPSO in the Strategic Planning and Analysis Unit as a Development Analysis Engineer. Between 2010 and 2014, they served as the Head of the Strategic Planning and Development Analysis Department. From 2014 to 2017, he held the Director for Development and Investments position at Macedonian Power Plants and was a member of the Management Board. Between 2017 and 2022, they worked as a Project Manager at MEPSO. From 2022 to 2024, they worked as a Development Analysis Engineer at an international consulting company headquartered in Germany.

Throughout his career, he has authored more than 20 scientific papers, both domestically and internationally, focusing on academic and scientific fields such as planning and development of transmission systems, development analyses for the implementation of renewable energy sources, and the liberalization of electricity markets.

He is one of the authors of the Transmission Network Development Study prepared by MEPSO in 2010 and participated in developing the first 10-year plan for the development of the European transmission network. During the same period, he was also one of the authors of the methodology definition and calculation of transmission capacities for the Southeast Europe region. Between 2014 and 2017, he was a project director for the Bogdanci Wind Park, overseeing the commissioning of the country's first wind power plant. During this time, projects such as the revitalization of six hydropower plants were completed, and the project for the district heating system in Bitola, Novaci, and Mogila was initiated.

In recent years, he has been the author or co-author of numerous regional studies on the operation and management of power systems.

Areas of interest:

- Development and investment plans for the transmission network
- Power flow and voltage stability analyses
- Reactive power compensation and power system control
- Short-circuit and fault analyses in power systems
- Dynamic models of transmission networks and transient stability
- Integration of renewable energy sources and battery systems
- Development and implementation of grid codes for electricity transmission, preparation of power system development plans, introduction of new methodologies, and calculation of transmission capacities, static and transient stability of power systems, voltage instability, and measures for resolution
- Transmission capacity calculation and congestion management in transmission systems.