



## ΟΜΙΛΙΑ

### “Object Oriented Programming in C# language” From code to executable and back

**Jan Sadolewski**

Assistant Professor

Department of Computer and Control Engineering

Rzeszów University of Technology

Poland

#### ΠΕΡΙΛΗΨΗ – ABSTRACT

The main goal of the talk is to briefly describe the popular C# programming language and its runtime environment – .NET virtual machine (Framework or Core). The genesis of object oriented approach and what kind of programming problems it solves. Innovative features of the C# language and their purpose in interoperability between languages on .NET platform. Stack based virtual machine as a runtime environment to generate executable code during process startup. The form of intermediate language (IL), selected opcodes and its operands during operation of stack based machine. Software for analysis of IL codes and its transformation back to C#.

***Short Bio:** Jan Sadowski, Ph.D. Eng., is an Assistant Professor at the **Rzeszów University of Technology** in Poland, where he has been a member of the Department of Computer and Control Engineering since 2006. He earned his PhD in Computer Science from the Silesian University of Technology, specializing in **Programming Engineering**. As a versatile programmer, his expertise spans from low-level assembly and C to functional languages like F# and industry-standard control languages. He is the lead developer of the **CPDev package**, used for programming control systems in the marine and electrical industries, and the author of an ST language compiler. His professional interests include compiler construction, reverse engineering, and software engineering.*

**ΠΑΡΑΣΚΕΥΗ 8 ΜΑΪΟΥ 2026**

**13:00-14:00**

**ΑΙΘΟΥΣΑ ΣΕΜΙΝΑΡΙΩΝ**