Stefan Ristevski, PhD

Mechanical Engineer with a PhD specializing in event-triggered adaptive control of multi-agent systems, leveraging cutting-edge AI, machine learning, and autonomous systems technologies. Equipped with a strong technical and mathematical foundation, proficient in multiple programming platforms, and focused on driving innovation to address complex, real-world challenges in smart systems and IoT applications.
Always looking for exiting new challenges.

EDUCATION

University of South Florida, *Tampa, Florida* *Jun. 2018 – Jun. 2021*
PhD in Mechanical Engineering
Thesis: *Event-Triggered Control Architectures for Scheduling Information Exchange in Uncertain and Multiagent Systems*
Note: *Multiple journal publications and approved patent in USA*

Bilkent Univeersity, *Ankara, Turkey* *Sep. 2012 – Jun. 2015*
MSc in Mechanical Engineering
Thesis: *Mechanical and controller design of a modular mechatronic device - mechacell*
Note: *Multiple journal publications and approved patent in USA and Turkey*

Middle East Technical University, *Ankara, Turkey* *Sep. 2008 – Jun. 2012*
BSc in Mechanical Engineering
Graduation project: *Smart helical conveyor for sorting two types of small bottle caps - design, control, and manufacturing*

WORK EXPERIENCE

Borgwarner, *Sweden* *Sep. 2021 – Present*
Controls & Systems Engineer

- Design of novel control algorithms for elctric drive of hybrid vehicles.
- Design of novel control algorithms for torque transfer systems and all wheel drive.
- Perform test drives with vehicle and analyze data.
- Products integrated in Audi, BMW, BYD.

Study.com, *Remote* *Sep. 2018 – Jun. 2022*
Academic writer & Tutor

- Tutor undergradute students in Math/Physics/Statics/Dynamics.
- Write academic questions in Math/Physics with professional formatting and graphics.
- Write articles helping students to prepare them for next steps in prrofessional life.

ARC Automotive, *Skopje Macedonia* *May. 2017 – Apr. 2018*
Maintenance and PLC Engineer

- Maintenance of production line for air-bag inflators.
- Maintain PLC code (AB) in production line.
- Integrate new features in production machines.
- Integrate Yaskawa industrial robot in production line.

Mikrosam AD, *Prilep, Macedonia* *May. 2016 – Apr. 2017*
R & D Engineer

- Research and production of automated tape layup and automated fillament layup machines.
- Integrating KUKA robots in production line with Siemens and Beckhoff PLCs.
- Develop PLC (Beckhoff) code for production machines of composite materials.

SKILLS

Programming: Docker, Python, C, C++, C#, PLC, Matlab/Simulink, Regexp, Homelabbing, KUKA programming language, Yaskawa robot programming, LaTeX
Tools: Copilot, ChatGPT, Git, Excel VBA, Matlab/Simulink, Visio, MS Office suite, Canalyzer, Canapea, Arduino, Raspberry Pi
Methods: Optimization, Automation, Smart solutions, Data analysis, Drones
Languages: Macedonian (Native), English (Fluent), Turkish (Fluent), Swedish (Basic)
Interests: TV Shows, DIY projects

Location: Remote ✉ stefan.ristevski@outlook.com Stefan Ristevski