Research Scientist MIODRAG M. ĆURČIN BSc Eng, MSc Aeronautics, PhD Missile G&C Retired Colonel of Serbian Army



CURRICULUM VITAE

Born May 15th 1951. in Zrenjanin, Serbia.

Nationality Serbian.

Education

- 1976. Bachelor of Science in Engineering, Faculty of Mechanical Engineering

 Department for Ballistics, Belgrade University (Thesis: Analysis and
 Performance Calculation of the HOT Anti Tank Missile).
- 2. 1977. Military School for Technical Officers
- 1984. Master of Science, College of Aeronautics Department of Aerodynamics, Cranfield Institute of Technology, England (Thesis: Influence of Turbulent Wind on the Dispersion of Unguided Missile).
- 4. 2006. Doctor of Technical Science, Faculty of Mechanical Engineering on Belgrade University (Thesis: Guidance Law Synthesis for a Missile with Variable Dynamic Parameters and Stochastic Disturbances in Flight).

Professional experience in field of armament

I have been working in Military Technical Institute Belgrade for more then 30 years in the Rocket Division as:

- o Chief of the Section for Rocket Aerodynamics and Flight Dynamics
- o Head of the Department for Missile Guidance and Control
- Head of the Rocket Division

At the moment of my retirement I was Assistant Managing Director of the Military Technical Institute in colonel rank.

The field of my work is research, development and testing of rocket and missile systems. I was involved in the design and development of four missile systems and one rocket system which are, or were, in service.

During my work I gained experience in the following fields:

- □ Design of anti tank missiles
- ☐ Design of AGM missiles and bombs
- □ Design of SAM missiles
- ☐ Design of field artillery rockets and ant hail rockets
- ☐ Design of fire control system for artillery self propelled launcher system

- ☐ Aerodynamics of projectiles, rockets guided weapons
- □ Trajectory calculation
- ☐ Servo system design and testing
- ☐ Integrated INS/GPS system design and testing
- □ Vibration measurement and testing
- ☐ Field flight testing of projectiles, rockets and missiles
- Wind tunnel testing.

So far I have published myself or as a co-author more then hundred articles, technical reports and studies. I am author or co-author of several software for aerodynamic calculation, which are in used and several other software concerning flight dynamic, guidance and control and fire control system.

During the work I was involved in more than hundreds of measurement (setting the requirements, planning, making data acquisition, data reduction and analyzing).

I am familiar with many different kinds of rocket and missile systems in service, and I have some experience in working on international contracts.

Others professional experience

I have been engaged part time as scientific adviser in "Institute for environmental and health protection" where I have been working in the next fields:

- ☐ Sound & Vibration measurement and testing
- Building acoustic
- □ Vibration Measurements in Predictive Maintenance (Machine-Health Monitoring)
- □ Development and production of instrumentation for air sampling for determination of air pollution in work and human environment.
- Measurement error analysis, data reduction and measurement uncertainty estimation.

Educational experience

I taught Projectile and Missile aerodynamics, Flight dynamics and External Ballistics several years on Military academy and School of Mechanical Engineering on Belgrade University. I also taught special subjects: Ballistic computer in fire control system, Measurement in armament, Navigation computer in Inertial navigation Systems in few universities abroad.

Languages

English (reading, writing, speaking), Russian (reading).

Computer skills

Languages: FORTRAN, Matlab, Object Pascal, C, C# Developer systems: Delphi, MS Developer Studio

Program Packages (CAD): AutoCad, SolidWorks, Origin, ...

Others: MS Office, Internet ...

Contact

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