Spyridon **Kompogiannis**

Mechanical Engineer

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Summary

Special Technical and Laboratory Personnel in School of Mechanical Engineering in Aristotle University of Thessaloniki (A.U.TH.). He participated in many research projects and co-authored more than fifty (50) papers in scientific journals and international conferences. He worked in Molds and Dies Industry. Member of A.U.TH> ATLAS Team since 2014 with active presence in ATLAS Experiment at CERN.

Working Experience

School of Mechanical Engineering – Aristotle University of Thessaloniki

Thessaloniki, Greece

Special Technical Laboratory Staff — January 2025 – today

Special Technical Laboratory Staff with object "Machine Tools and Machining" to offer specialized technical and laboratory support to the Design and Structures Department of the School of Mechanical Engineering.
https://www.meng.auth.gr/archiki-new-menu/

- Organization, operation and maintenance of laboratory equipment
- Support of courses (labs organization, lectures)
- Design and machining of jigs and devices for research activities
- Participation in Research activities of the EEDM Lab/Department

ATLAS Experiment – CERN

Thessaloniki, Greece – Geneve, Switzerland

Mechanical Engineer — June 2018 – Dec. 2024

Member of ATLAS AUTH Team for design and production of LM2 MicroMegas Detector in the frame of New Small Wheel Upgrade Project of Muon Group in ATLAS Experiment at CERN. Responsible for designing the production version of LM2 MicroMegas Detector after taking over from PH/DT CERN Group that was responsible for the development of LM2 prototype. Later responsible for the assembly of MicroMegas detectors on sectors and finally the assembly of full sectors on both (A and C) New Small Wheels. Logistics Coordinator for ITk Upgrade Project in ATLAS Experiment.
https://atlas.cern/about

- Responsible for designing the LM2 Micromegas Detector (NSW Upgrade Project/Muons)-ATLAS Experiment:
  - Asssembly design and production of mechanical drawings for all individual parts of LM2 detector,
  - Participation in setup of assembly line in Thessaloniki (KEDEK),
  - Design and construction of lifting tool for LM2 Detector,
  - Assembly supervisor of detectors on New Small Wheels στα Wheels,
  - Participation in installation and commissioning of both Wheels (10m diameter & weight 100tn/Wheel,
- Logistcs Coordinator of ITk Upgrade Project/ ATLAS Experiment
  - Organization of shipping parts between collaborating Institutes,
  - Organization of cold transport of sensitive material (CF prepreg @-20 degrees Celsius),
  - Organization of reception and handling of parts with very large dimensions,

Fraunhofer-Project Center Coatings in Manufacturing (PCCM)

Thessaloniki, Greece

Research Assistant — 2008 – 2014

Participation in projects regarding the technology of PVD Coatings and their application on cutting tools.

Laboratory for Machine Tools and Manufacturing Engineering (EEDM)

Thessaloniki, Greece

Research Assistant — June 2008 – May 2018

Projects in cooperation with cement industry. Design (with the aid of CAD systems) of supporting equipment for improving the performance (eliminate vibrations during operation) of big fans included in production line of cement.

- Optimization of existing equipment's operation:
  - FEM simulation of existing equipment's operation,
  - evaluation of eigen-frequencies,
  - proposal of targeted conversions and updates on existing equipment for achieving smooth operation

KEM S.A -Member of DROMEAS Group

Serres, Greece

Mechanical Engineer & Safety Officer — December 2003 - May 2008

Chief engineer in KEM S.A., the company of the group responsible for design and construction of tools (molds) and dies. Molds for plastic injection parts (office furniture) but also for high pressure aluminum die casting parts (office furniture and automotive industry).
https://www.kem-p.gr

- Design of parts but mostly design of molds using CAD systems
- Molds and dies machining with the aid of CAM Software
- Extnsive use of CAM software to program multi-axis milling centers, die-sink and wire-cut EDM machines
- Responsible for defining the specifications for the raw material quality according to the requirements (steel and polymers)
- Production management of plastic parts for use in office furniture
- Quality Control Manager (ISO:9000) and Safety Officer

Laboratory for Machine Tools and Manufacturing Engineering (EEDM) - A.U.TH. Thessaloniki, Greece

Research assistant 11/1996 - 03/1999 & 09/2000-11/2003

Participation in scientific research projects and also projects with industry (heat treatment of gears and other machine elements as main operator of the gas carburazing installation of the Laboratory).

- Gas Carburizing and geat treatment of steel
- Reasearch activity in machining and especially in gear hobbing

Education

Interdepartmental Postagrduate Program of Studies – Aristotle University of Thessaloniki Thessaloniki

Postgraduate studies (MSc.) in Processes and Advanced Material Properties 2014 - Apr. 2018

Postgraduate Thesis: ”Computational-experimental investigation of milling porous aluminium” (in Greek).

School of Mechanical Engineering – Aristotle University of Thessaloniki Thessaloniki

Diploma in Mechanical Engineer 1989 - 1996

Diplome Thesis: ”Simulation Models describing Steel Gas Carburizing Process” (in Greek)

Skills

CAD
- PTC CREO (previously PTC Pro-Engineer)
  - Modeling and machining molds and dies
- Dassault SolidWorks & Autodesk Inventor
  - Modeling of parts and jigs
  - 2D drawings for educational purpsoses
- Dassault CATIA V5
  - Large assemblies modeling
  - 2D production drawings of parts

CAM/CAE
- WorkNC
  - Complex multi-axis machining on molds and dies
- MasterCam & SolidCAM & Esprit
  - Part machining for educational purposes
- ANSYS
  - Stress and eigenfrequencies calculations on parts and assemblies
- ANSA (BetaCAE)
  - Preparation and optimized mesh generation on 3D models for FEM analysis

Operating Systems Microsoft Windows, Linux, Mac OSX

Applications Microsoft Office, CorelDraw!, Adobe Photoshop & Illustrator, GIMP, Incscape

Progarmming Languages Fortran, Python, C, C++

Scientific Software OriginLab Plot, GNU Octave, GnuPLOT, Mathworks MATLAB, LabView

Languages English (B2), French (Moderate), German (Moderate)

Hobbies Digital & Analogue Photography