

# Kostadin Loskoski

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## Experience

### Imec

07/20 - 09/20

*Research Intern (Materials Engineer Duties)*

- Produced 2.5D void-free high aspect ratio (3 x 50 um), copper, through silicon vias (TSVs) by applying unipolar pulse deposition.

### KU Leuven

11/19 - 06/20

*Master Thesis Worker*

- Conceptualized a 3D printing process for RT thermoelectric p-type material using Selective Laser Sintering (SLS).
- Synthesized Bi<sub>0.5</sub>Sb<sub>1.5</sub>Te<sub>3</sub> powder by mechanical alloying and confirmed single-phase presence using X-ray Diffraction (XRD).
- Formulated non-Newtonian ethanol-based slurry precursors in 2 ml batches and developed a coating technique for the 3D printing process.
- Analyzed and correlated the morphology and chemical composition of 2 x 2 mm printed samples with the laser sintering parameters.

### Empa

03/17 - 03/18

*Research Intern*

- Studied the effects of furnace sintering beta alumina-based solid-state electrolyte at a temperature range of 1450°C - 1600°C.
- Examined the ionic conductivity using 4-electrode impedance spectroscopy and associated with the microstructure.
- Investigated the feasibility of developing a non-destructive failure analysis procedure using non-linear reverberation spectroscopy.

### Ege University

07/16 - 08/16

*Research Intern*

- Demonstrated uniform electroless nickel plating with an average thickness of 15 microns on ABS polymer.
- Validated the surface morphology and the amount of deposit of 50 samples using X-ray Fluorescence (XRF).

## Education

### Catholic University of Leuven

09/22

Master of Engineering, M.Eng., Materials Engineering

### University of Milano Bicocca

06/19

Master of Science - M.Sc., Materials Science

### Ss. Cyril and Methodius University of Skopje

06/18

Bachelor of Engineering, B.Eng., Materials Engineering

## Skills

- Scanning Electron Microscopy
- Energy-dispersive X-ray spectroscopy
- Thermogravimetric analysis
- Differential Scanning Calorimetry
- Optical profilometry

- Additive Manufacturing
- Microelectronics
- Electrochemistry
- Metallography
- Dilatometry

- Laboratory skills
- OriginLab
- MS Office
- English B2
- Driving license