



BUT SEMICONDUCTOR TECHNOLOGY HUB

Jiri Haze – Head of Department of Microelectronics

Executive University Coordinator of BUT Semiconductor Technology Hub

haze@vut.cz

Technicka 10, 616 00, Brno, Czech Republic

[Faculty of Electrical Engineering and Communication](#)

[Faculty of Mechanical Engineering](#)

[Faculty of Information Technology](#)

[Faculty of Chemistry](#)

[Central European Institute of Technology](#)

-
- A large, modern building complex with a prominent silver, geodesic dome structure in the foreground. The building features colorful facades in yellow, green, and red, and a sign that reads "WET DOME". The building is situated in an urban environment with trees and a paved area in front.

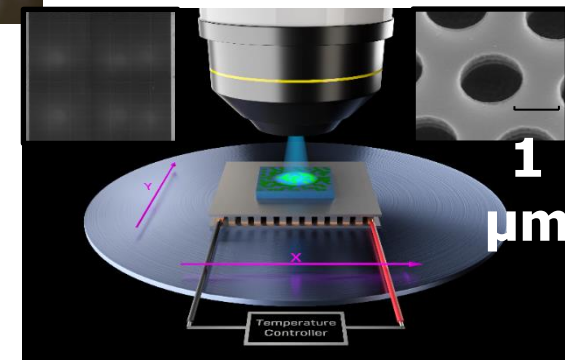
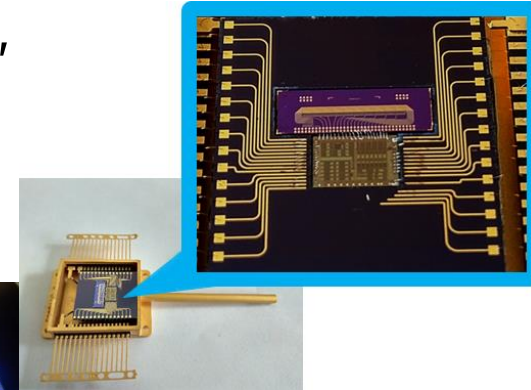
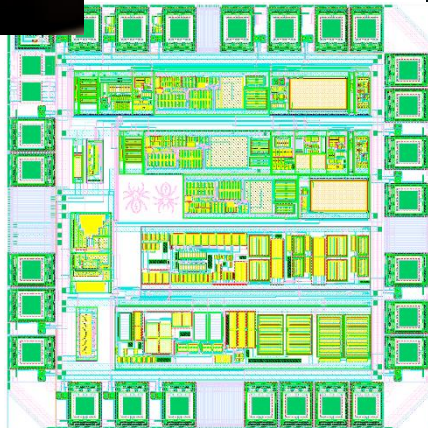
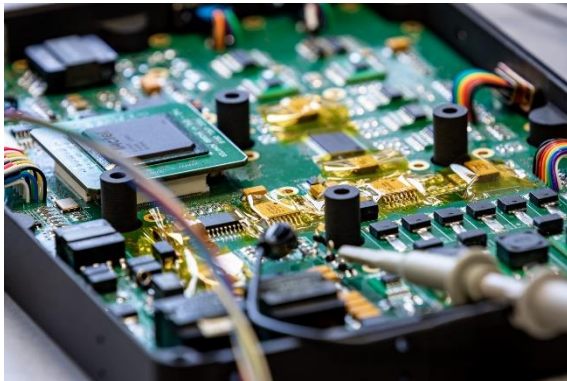


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DEPARTMENT OF MICROELECTRONICS - WHAT WE DO ...

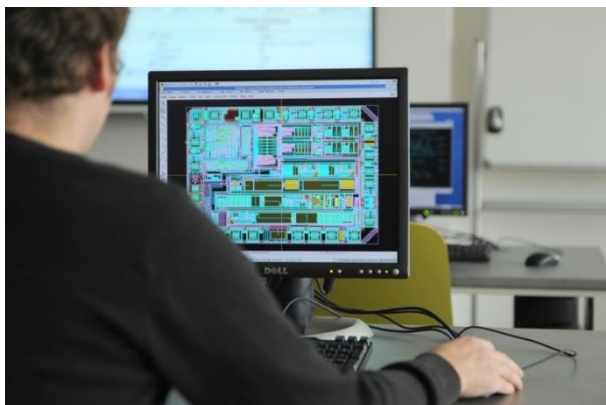
- Four basic groups
 - sensor applications and nanotechnology,
 - ASIC design and verification & special space applications,
 - electronic components, devices and embedded systems,
 - packaging, mounting technology & hybrid IC.





- Czech study programmes
 - bachelor – [Chip Design and Modern Semiconductor Technologies](#)
 - master – [Chip Design and Modern Semiconductor Technologies](#)
 - doctoral – [Microelectronics and Technology](#)
- English study programmes
 - bachelor – [Electronics and Communication Technologies](#)
 - master – [Microelectronics](#) – also as double-degree in cooperation with Northern Illinois University
 - Chip Design and Modern Semiconductor Technologies – open 2026
 - doctoral – [Microelectronics and Technology](#)

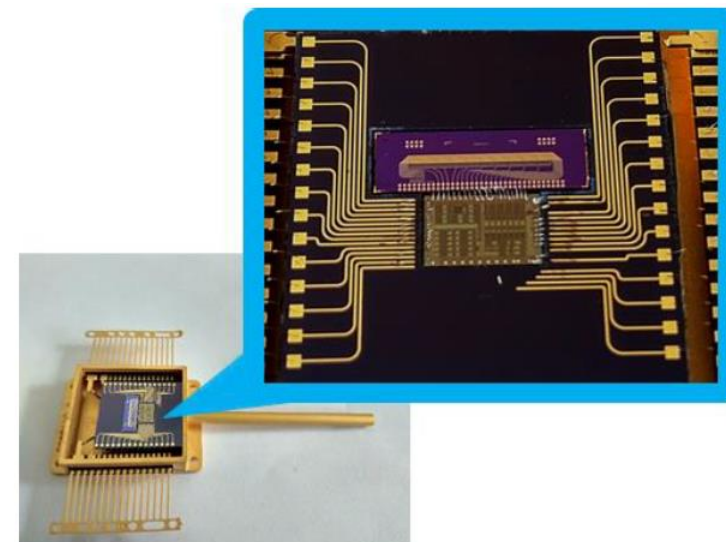
- Sensor applications, sensor signal processing,
- mixed-mode integrated circuits,
- low-voltage low-power design,
- digital signal processing,
- algorithm development and implementation,
- space applications design.



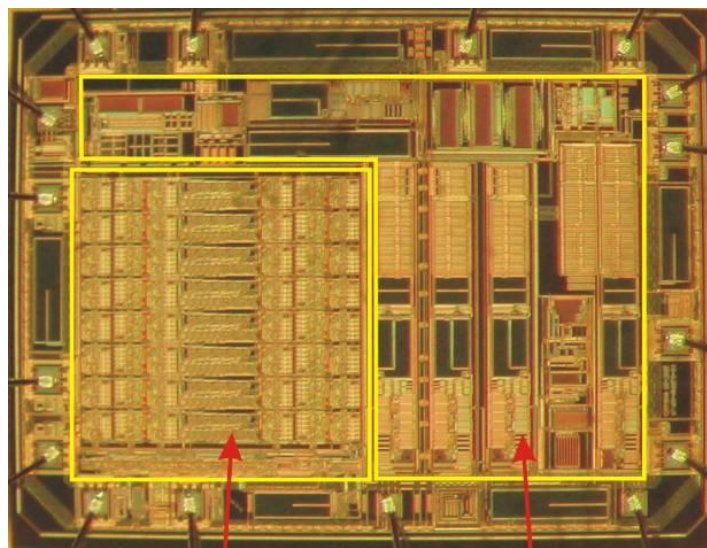
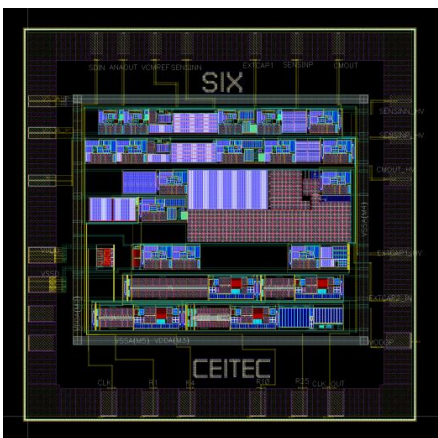
mec



EUROPRACTICE

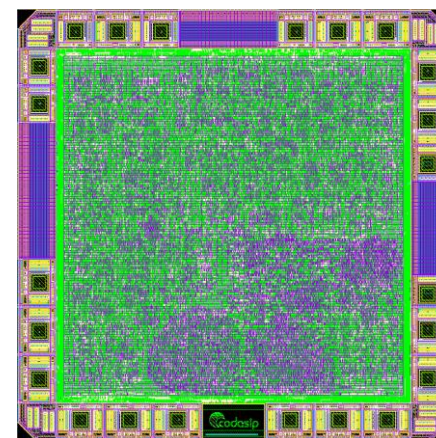
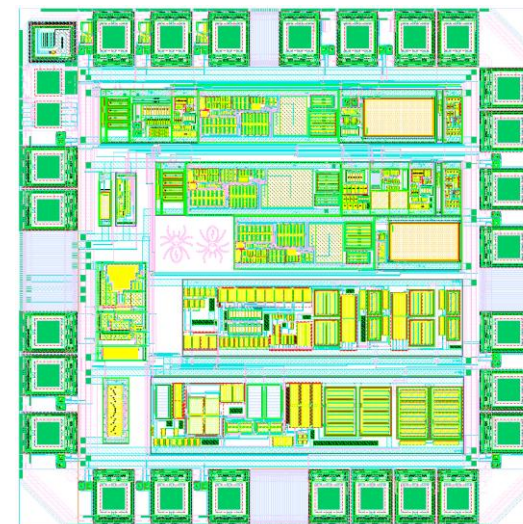


- First chip designed in 2002 – 0,7 μm technology,
- 13 different ASICs since the first chip,
- Mostly for
 - biomedical area,
 - sensor applications,
 - digital applications,
 - space, etc.



Digital part

Analog part



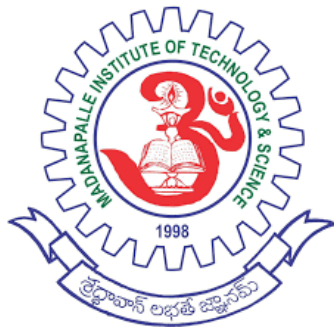
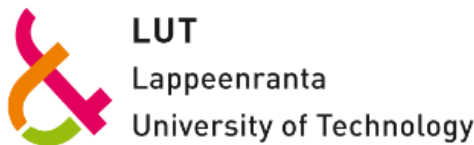


COOPERATION – INDUSTRY, CLUSTERS





COOPERATION – ACADEMICS, ALLIANCE





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LOOKING FORWARD FOR OUR COOPERATION!

