

EE-517 Bio-Nano-Chip Design Student Projects - Project Proposal

Name and Surname:

Section:

Previous Experience Checklist (put a check mark if applicable):

- Transistor-level Bi/CMOS circuit design
- PCB-level circuit design
- SPICE simulation software use (e.g., LTspice)
- Multiphysics finite element analysis software use (e.g., COMSOL)
- Microfluidics (design or simulation or fabrication)
- Development/simulation of MEMS/NEMS
- Development/simulation of a gas sensors
- Development/simulation of a magnetic or an optical sensor
- Development/simulation of an acoustic or an ultrasonic sensors

Title of the project (provisional):

Short description/summary (250 words max):

Sections you want to implement (1 sentence description for each):

- Bio:
- Nano:
- CMOS:
- Other (if applicable):

More Details:

- Application (250 words max):
- Motivation (250 words max):
- Problems to be solved (250 words max):
- Proposed solutions (250 words max):
- How will you implement your solution? (250 words max):
- Novelties of your proposal (Bullet points, each point 1 sentence):
- References (at least one, no limits):