Projet d'ingénierie simultanée

SGM
Section de Génie mécanique

A microrobotic platform to study cooperation and resilience in ant colonies

Personne de contact	*Selman SAKAR*
Objectif du projet	*This project aims to develop a wirelessly controlled ant-sized agent that can physically interact with living ants inside a custom built nest. Students will manufacture a variety of prototypes that can navigate through the colony using teleoperation or feedback control, and repeatedly deliver signals through touch with predefined duration and strength.*
Equipes	*1 group with 2 to 3 students*
Encadrement	*Fazil Emre Uslu (PhD Student), Selman Sakar (Professor) MICROBS Lab (microbs.epfl.ch)*
Commentaires	**Programming in MATLAB and C++, electronic circuitry, magnetic fields, mechanical design and manufacturing**