

DEPOSITION OF TIN DROPLETS ON ELECTRONIC COMPONENTS IN THE ABSENCE OF GRAVITY

Universidad de Antioquia Faculty of Engineering Medellin-Colombia

An Open and Transformative Faculty

The Team





Pilar MonsalveMechanical Engineering student



Oriana Mejia
Mechanical Engineering
student



Paulina QuinteroElectronic Engineering student



Liliana BustamanteProject coordinator
PhD (c), MsC, Eng.



















Universidad de Antioquia





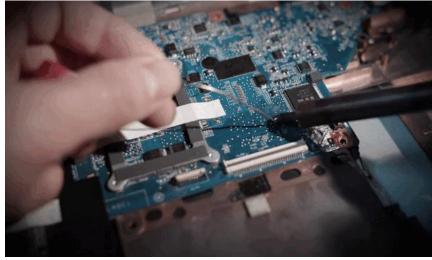
Faculty of Engineering

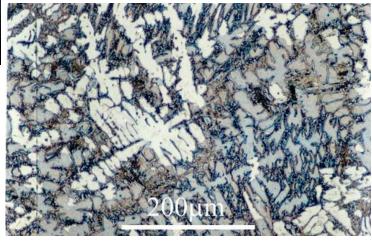
Motivation





Soldering of electronic components in space missions



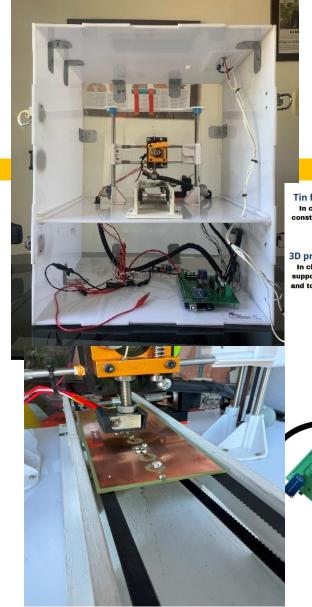


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Main objectives

- Depositing tin droplets in weightless conditions.
- To analyze the effect of microgravity on the microstructure of tin droplets.









Relevance

SDG 5: "Gender Equality"

- Promoting women's participation in STEM areas.
- Reduce gender bias.

SDG 9 "Industry, Innovation and Infrastructure"

- Promoting new research topics such as microgravity in the Faculty of Engineering.
- Developing soldering process focused on space conditions
- Contributing to the advancement of Medellin's aerospace research.

SDG 17 "Partnerships for the goals"

• Collaboration with space agencies will promote space science education in the city, encourage its study, and help the country's space sector development.

