



**THE FUTURE OF
AUTONOMOUS DRIVING
ROBOTS HOLDS IMMENSE
POTENTIAL ACROSS
VARIOUS DOMAINS THAT
GOES EVEN BEYOND EARTH**

TASK 2: PRESENTATION ON THE TOPIC

AUTONOMOUS MOBILE ROBOT WITH RADAR AND CAMERA SENSOR FOR LANE DETECTION AND TRACKING

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APPLICATION



Food and services



Logistics



Transportation

APPLICATION



Public
transportation



Space
Exploration



STATE OF ART

**Lane detection and tracking algorithm implementation
for an Ackermann-steering mobile robot**

2023, San Diego, California, United States

**Lane Detection Algorithm Using LRF for Autonomous
Navigation of Mobile Robot**

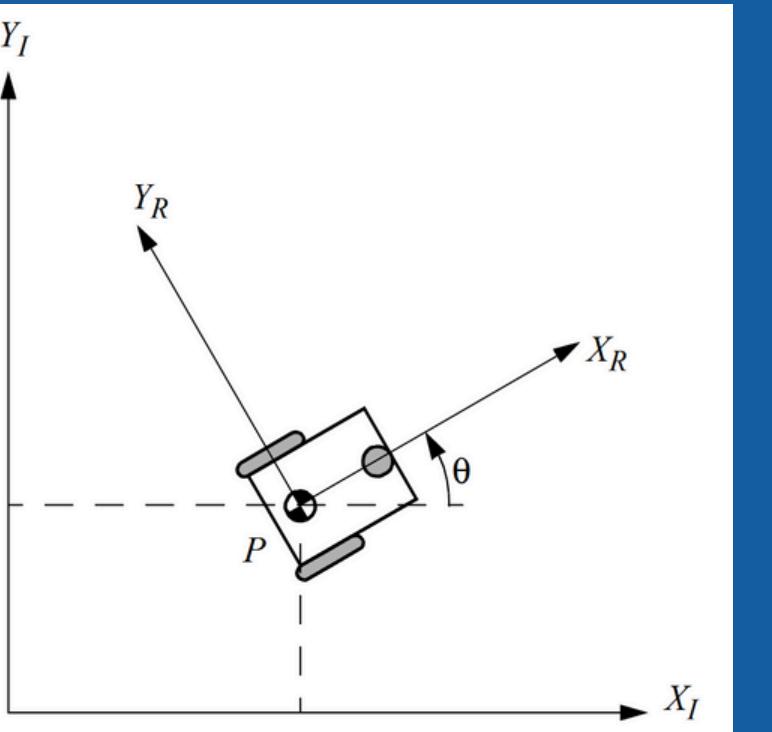
2021, Jong-Ho Han and Hyun-Woo Kim

**Road Detection and Tracking for
Autonomous Mobile Robots**

2009 The International Society for Optical Engineering 4715

WHAT KIND OF MOBILE ROBOT ?

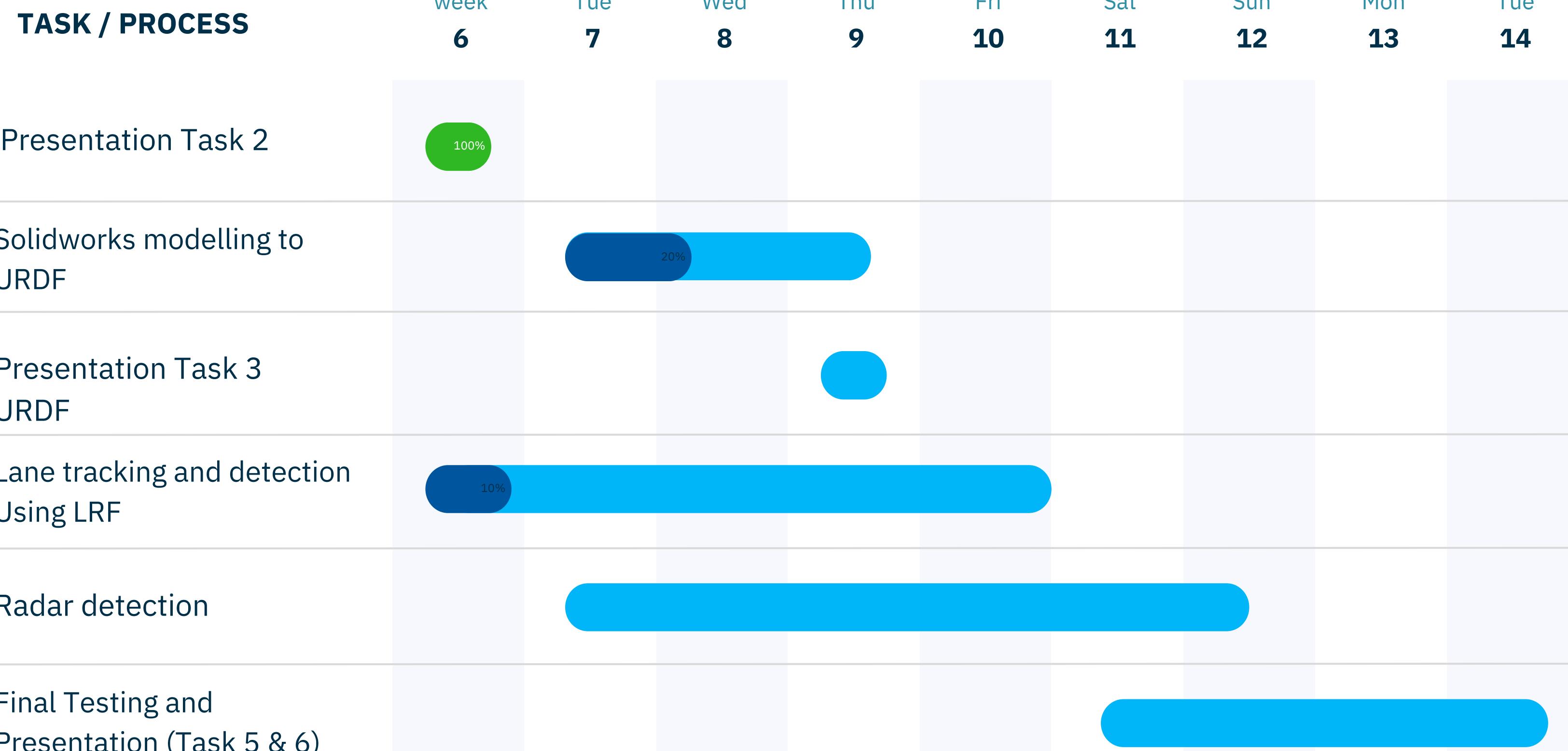
3 Wheeled Robot



WHY WHEELED ROBOT?

- Commonly used for lane detection and tracking
- Accessibility
- Easy to work with
- Usage of the steering wheel







Resources of Information