

Steps Involved in a Single Driving Operation

Making a 3-point turn involves **several difficult problems**:

- **acquiring a model** of the local environment,
- **selecting the best location** (one that admits a feasible path for the turn and has the fewest safety risks—vehicles traffic, pedestrian traffic, bike traffic, and so forth),
- **path planning based on** the vehicle **dynamics**, and
- **execution of the plan** (including possibly revising or backing out of the plan due to unforeseen complications—for example, someone parks their motorcycle in the space in which your car planned to turn).