

Repository Update

Tavish Mankash

New Structure

Minimal but ready to run a demo A* pathfinder.

```
Terrain-Navigate/
  docs/
    technical_design.tex (unchanged)
    module_plan.tex
    technology_stack.tex
    repository_update.tex
  src/
    terrain_navigate/
      __init__.py
      __main__.py      # demo entrypoint
      data/loader.py
      utils/voxel.py
      graph/grid.py
      cost/costs.py
      planner/a_star.py
  README.md
  requirements.txt
  .gitignore
```

Rationale

Keep the core tight: data → cost → planner. Demo runs without external data, using a synthetic terrain. Later we can plug LAZ ingest and voxelization without changing the planner.

Next

- Add LAZ reader (laspy/PDAL) and a simple gridding path.
- Optional visualization: save a PNG with the path overlay.
- Small unit tests for neighbors, heuristic admissibility.