### 

**Definitions:**

**Project Sponsor: Project team manager**

**Project Mentor: Direct contact for EDGer working on project**

**EDGer: EDG Engineer (Application Support Engineer)**

**EDG Manager: EDGer’s Manager**

### Initial Project Discussion by EDGer with Potential Sponsor

**Best practices:**

* Before this meeting, do some research on the group and the product area so that you go to your first meeting with as much information as you can.
* Make sure you meet with the actual mentor before agreeing to do the project
* Remind Sponsor that you need to get the project ok’d by your EDG manager before starting work
* Don’t start work on the project until you get the ok
* DO write up the project and submit it in the project database

|  |  |
| --- | --- |
| **Questions** | **Follow up or listen for** |
| What does your group do? | * What products or features do you work on? * What are your main projects for the next release or two? * What technologies do you primarily work with * What are some of your biggest challenges right now |
| What can I learn by working in your group? |  |
| [Here are my goals] | * I’m looking to gain experiences with Nav2 implementations * What is the timeline for this project? |
| Discuss project…. | * What is the objective / deliverable?   + Identify metrics to benchmark path-planning algorithms   + Compare ‘getting-started’ process for MathWorks and ROS2   + Theoretical comparisons using documentation (Analytically using the metrics above?)   + Define Problem Statement for practical comparison (What does practical comparison entail? Is it the tests we run in simulation?)   + Run tests to compare planners based on identified metrics (Are we running tests on actual simulations or point-robots?)   + Make presentation * What would it mean to be “done” with the project (e.g. code provided to mentor, code submitted to BAT…?)   + Only presentation (no code?)? * How much time can I spend learning ROS2 Nav? * What MathWorks processes or tools would I need to know / use?   + Navigation Toolbox? * What are appropriate intermediate milestones? |
| Project coordination process? | * Who all are stakeholders? (Discuss below) * Rohan, Mihir, Laxit, Avi, YJ Lim (Product manager for ROS/Robotics toolbox) * Who will mentor me? (manager or another team member?) Mihir, Laxit * When would we meet to discuss progress? * Weekly * Who else would be available to help me with questions?: Laxit * If the Sponsor is in another MathWorks location, who will be your Sponsor/Mentor in the local office? How will you communicate project updates with between all stakeholders? * Check with Manager * Ask, “Please send me the invitations to your scrums and team meetings.” * Let the sponsor know about how much time you will spend on the project and which weeks you will be working on it. |
|  |  |

Stakeholders:

Product Marketing Leads:

Role:

Interest:

Development Leads:

Role:

Interest:

Outcome: Product strategy for path planning

(TIMELINE ON NEXT PAGE)

Deliverables:

Presentation: Metrics, Theoretical Comparison, Experimental Test Results, Recommendations (For example: Feature additions, Feature enhancements, Workflow changes)

Completion Date:

March 31st 2023

Learning goal:

Theoretical: Documentation: How many planners, Sys Reqs,

Technical: MathWorks Navigation Toolbox, Nav 2, ROS

Process: How competitive analysis is used to drive MRP

Soft skills: Presentation

Team: SPC