**PROJECT PLAN DOCUMENT**

**(Due: 17th September, 2018)**

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| --- | --- |
| Project number | ***39*** |
| Project Title | ***3D Reconstruction of a scene*** |
| Document | Project Plan |
| Creation date | ***17/09/2018*** |
| Created By | ***Anush Amar Mahajan , Pulkit Gera , Sarthak Singhal*** |
| Client | ***Anil Upadhyay , Five Fingers Innovative Solutions*** |

# **Brief problem statement**

3D Reconstruction of a dynamic scene using depth videos from multiple cameras.

# **Team Members**

Anush Amar Mahajan – Developer

Pulkit Gera - Developer

Sarthak Singhal - Developer

# **Team Communication**

We meet every Monday and Wednesday after SSAD class and on Monday Nights at 10 pm in room 230 (Bakul Nivas)for discussions.

If we encounter any problems we have a Slack channel to communicate with our mentor.

We also have a Trello board to keep track of how much wok is done besides the SRS document.

# **Development Environment**

IDE - VS code

System Requirements - Open CV, Python 3.6+, cpp,Realsense 2 library(cpp),Intel Realsense Camera

# **Milestone Schedule**

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| --- | --- | --- | --- |
| **Milestone** | **Due Date** | **Release** | **Deliverable?** |
| *Through Epipolar Geometry identify the best set of images.* | 24/09/18 | R1 | Yes |
| *Identify algorithm to stitch images.* | 27/09/18 | R1 | Yes |
| Stitch all the images and generate a point cloud. | 20/10/18 | R2 | Yes |
| Wrap the stitched images to create a 360 degree view. | 1/11/18 | R2 | Yes |
| Use the point cloud to render 3D texture. | 15/11/18 | R2 | No |