**Mining Group:**

Nico Epler (09/09/2024-20/09/2024):

Done:

1. Finally Finished marking A1s!
2. Designed new RGBD camera mount for drone and added insulator (Apparently cam is very sensitive to vibrations)
3. Camera Firmware update
4. Tested RTAB-Map on PC (somehow extremely slow/laggy, so wondering if it will work on RBPi)
   1. Investigated and think the image processing for feature detection for IMU Drift correction is to computational expensive. Started looking into Optical flow sensor.
5. Test Pi + Flight Controller connection, incl. reading PX4 odom on RBPi

ToDo/Plan for next week:

1. Clearly outline each action I need for autonomous navigation to gain a better understanding of what algorithms to use and how to reduce computational complexity
2. Investigate Optical Flow sensor
3. Prepare Presentation for ESL Robotics Research Meeting