

Kevin Barnard Sorted By Project

500055 - VARS, M3/RS, DSG

- Scoped VARS vector database, helped write project abstract (Week 19)
- Tweaked some settings in Donnager for video processing jobs (Week 43)

701165 - OVAI Phase II

702108 - Deployable AI

702108.99 - 6-eye camera-compute mod

800163 - Sustaining OVAI

- Met with Roboflow to explore potential for collaboration (Week 43)

901809 - Deep Sea Bioinspiration

- Ran MBARI-315k-YOLOv8 model on 2024/2025 Optim video (Week 15)
- Preparing dataset for siphonophore model (Week 15)
- Downloaded siphonophore dataset from VARS (Week 19)
- Cleaned/filtered siphonophore data according to embargoes (Week 19)
- Converted dataset to train YOLO OD (Week 19)
- Trained several YOLO11x models (Week 19)
- Evaluated models against test dataset (Week 19)
- Ran detection & tracking on LRAUV Galene Optim midwater transects (Week 19)
- Packaged tracks for import to VARS (Week 19)

902002 - FathomNet

- Prepared & ran FathomNet workshop (Week 15)
- Facilitating submissions to FathomNet Database (Week 15)
- Met with Kate Brandt (Google) to scope collaboration (Week 28)
- Set up Meta FAIR collaboration, CA in progress (Week 28)

902204 - Scalable Robotics

- MiniROV Arctic prep (Week 11)
 - Fixed issues with SLAM not using estimator data (Week 11)
 - Investigated missing estimator data from and TT days (Week 11)
 - Set up configurations for down (Week 11)

- Tested forward camera SLAM configuration (Week 11)
- Implemented LASS SLAM for upcoming May deployments (Week 15)
- Cruise (Week 19)
- Rebasing changes made to RTAB-Map SLAM to latest version (Week 19)

902504 - Scalable Semantic Mapping

- Debugged issues in RTAB-Map database viewer graph optimization (Week 43)
- Implemented functions to export SLAM graph link info and tweak link covariances by type in database viewer (Week 43)
- Created plan for running SLAM on MOLA AUV (Week 43)
- Began implementation of XFeat and LighterGlue into RTAB-Map SLAM visual odometry pipeline (Week 43)

Out of Office

- Nov 26 - Dec 2: vacation
- Mar 14, 2025 and Mar 17, 2025 – robotics competition
- Apr 3, 2025 – robotics competition
- Apr 16, 2025 - Apr 17, 2025 – vacation
- Jun 11, 2025 - Jun 15, 2025 – CVPR
- Aug 7, 2025 – vacation
- Jun 23, 2025 - Jun 26, 2025 – HPE Discover
- Oct 13, 2025 - Oct 15, 2025
- Oct 27, 2025 - Oct 31, 2025 : UCSB NCEAS Innovation in Digital Assets workshop

Overhead

- Attended HPE Discover conference (Week 28)