

Launchpad Cohort 2 Feedback | Quarter 1

Tom O'Reilly, VyCarb

Advisor: Tom O'Reilly

Organization/Affiliation: Monterey Bay Aquarium Research Institute

Area of Expertise: Software engineering

Launchpad Team Advised: VyCarb

Overview of engagement

Implemented the use of watchdog timers, which are commonly used to improve fault tolerance of autonomous systems.

Created best practices for C++ and python programming.

Introduced software documentation tools to improve team understanding of the system, making it easier to refine and maintain the software.

Reviewed VyCarb's OAE methodology document and provided feedback.

Facilitated connection with Dr Yui Takeshita of MBARI.

Challenges and obstacles

NA

Successes and achievements

Vycarb has made excellent progress toward demonstrating autonomous operation of their reactor system.

Key work in the next quarter

None: End of engagement with Tom since Vycarb no longer need software advisory