

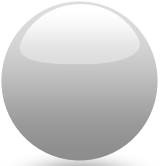
# COMPUTER APPLICATIONS RAPID PROTOTYPING (CARP)

For PACAF at Purdue University managed by Quantum Research Sciences (a Purdue Research Foundation Company)

**A coding delivery team specializing in DoD/Aviation CS technology will take 4 PACAF concepts per year and prototype/MVP them in less than 3 months.**

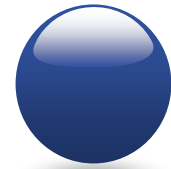
## CARP

**DEFINE**



PACAF communicates what they want

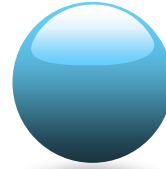
### DESIGN



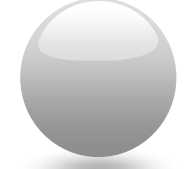
- **Masters, PhD Cand., & Post-Docs:** We have experts in Computer Science, Physics, Quantum Sciences, Math & Aviation Sciences
- **Utilization of cutting edge methodologies (as needed):** We know artificial Intelligence (AI), Machine Learning (ML), Quantum Computing (QC), Natural Language Processing (NLP), etc.
- **Resources and infrastructure:** We have access to powerful classical and quantum hardware, as well as Purdue clusters, environments, etc.
- **Collaborative process:** a) weekly virtual mtgs; b) as avail, PACAF TPOC's come to Purdue for hands-on project engagement; c) annual leadership deep-dive on cutting edge tech knowledge
- **Tech development collaboration area:** We have our own secure area just for PACAF projects



### DEMO



### DELIVER



#### The tech goes:

- Back to PACAF
- Turn-over to AFRL/AFIT
- To a Prime (or other dev team) for refinement
- Purdue builds-out further