

Fiscal Year:	FY 2021	Task Last Updated:	FY 10/22/2020
PI Name:	Ruben, Josh		
Project Title:	Oculometric Cognition Testing and Analysis in Virtual Environments (OCTAVE)		
Division Name:	Human Research		
Program/Discipline:			
Program/Discipline-- Element/Subdiscipline:	TRISH--TRISH		
Joint Agency Name:		TechPort:	No
Human Research Program Elements:	None		
Human Research Program Risks:	None		
Space Biology Element:	None		
Space Biology Cross-Element Discipline:	None		
Space Biology Special Category:	None		
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Zip Code:	77003	Congressional District:	18
Comments:			
Project Type:	Ground	Solicitation / Funding Source:	TRISH--Industry
Start Date:	11/01/2020	End Date:	12/31/2021
No. of Post Docs:		No. of PhD Degrees:	
No. of PhD Candidates:		No. of Master' Degrees:	
No. of Master's Candidates:		No. of Bachelor's Degrees:	
No. of Bachelor's Candidates:		Monitoring Center:	TRISH
Contact Monitor:		Contact Phone:	
Contact Email:			
Flight Program:			
Flight Assignment:	NOTE: End date changed to 12/31/2021 (originally 10/31/2021) per TRISH (Ed., 1/30/21)		
Key Personnel Changes/Previous PI:			
COI Name (Institution):	Pena, Roberto B.A. (Z3VR) Seyedmadani, Kimia M.S. (NASA Johnson Space Center) Burkhart, Cody M.S. (NASA Johnson Space Center) Stone, Leland Ph.D. (NASA Ames Research Center)		
Grant/Contract No.:	NNX16AO69A-IND0102		
Performance Goal No.:			
Performance Goal Text:			

Task Description:	Industry Project Oculometric Cognition Testing and Analysis in Virtual Environments (OCTAVE) will merge the Comprehensive Oculomotor Behavioral Response Assessment system with an enhanced XR (extended reality) system to deliver oculometric measures of human health and performance that could enable future research into neurocognitive, ophthalmological, and psychological stressors of spaceflight conditions with the necessary spatio-temporal fidelity, yet could be implemented operationally.
Rationale for HRP Directed Research:	
Research Impact/Earth Benefits:	
Task Progress:	New project for FY2021.
Bibliography Type:	Description: (Last Updated:)