Supplementary Table 1

Correlation (r) and Significance (p) Values for Electrodes Finding Strong Correlation of Their PRAA With Behavioral SA Index

Electrodes	**Pearson correlation**		**Spearman correlation**		**Skipped correlation**	
	r	p	r	p	r	t
Fp2	0.58	0.01	0.55	0.01	0.55	2.69
C4	0.52	0.02	0.5	0.03	0.64	3.37
O1	0.53	0.02	0.52	0.02	0.71	4.05
P7	0.53	0.02	0.48	0.04	0.6	3.07
Pz	0.53	0.02	0.48	0.04	0.63	3.32
Oz	0.53	0.02	0.5	0.03	0.49	2.3
Cp1	0.53	0.02	0.5	0.03	0.43	1.91
POz	0.58	0.01	0.57	0.01	0.77	4.91

Supplementary Table 2

Neural Underpinnings of Situational Awareness (SA) Task. The Activations Are Represented at FWE Corrected p<0.05. The Coordinates Reported Are in Montreal Neurological Institute (MNI) Space

Region Label	Cluster No.	Cluster Size	F-value	MNI Coordinates			Laterality
				x	y	z	
Occipital lobe							
Occipital fusiform gyrus	1	3843	46.2158	-28	-70	-12	L
	2	1452	44.3488	26	-76	-12	R
Lateral Occipital Cortex, inferior division	1	3843	38.8991	-40	-84	8	L
Intracalcarine Cortex	1	3843	36.9321	4	-86	2	R
	2	12	17.8642	-16	-64	10	L
Temporal Occipital Fusiform Cortex	1	1452	43.3435	28	-50	-14	R
Lateral Occipital Cortex, superior division	1	1452	42.125	38	-82	12	R
	2	219	42.3583	28	-58	54	R
	3	145	19.302	32	-86	24	R
	4	138	31.9544	16	-66	62	R
Juxtapositional Lobule Cortex	1	636	32.1219	-4	-2	52	L

Frontal Lobe							
Superior Frontal Gyrus	1	636	22.7266	2	22	50	L
Inferior Frontal Gyrus, pars opercularis	1	219	26.8669	-44	6	26	L
Middle Frontal Gyrus	1	211	29.8052	-30	-6	54	L
	2	127	24.7594	36	-2	58	R
Precentral Gyrus	1	124	24.4921	-52	-8	48	L
	2	124	24.413	-38	-18	62	L
	3	30	19.2344	44	8	32	R
Parietal Lobe							
Precuneous Cortex	1	18	21.188	-8	-56	64	L
	2	8	19.8759	6	-50	54	R
	3	5	19.8484	-4	-44	60	L
Superior Parietal Lobule	1	8	18.9791	-30	-44	44	L
Parietal Operculum Cortex	1	7	18.3913	-60	-26	18	L
Sub Cortical							
Right Thalamus	1	9	19.0808	10	-16	8	R
Temporal Lobe							
Inferior Temporal Gyrus, temporooccipital part	1	8	20.5464	-44	-50	-10	L

Supplementary Table 3

Neural Underpinnings of Pre-Task Resting-State Alpha Frontal Asymmetry (PRAFA) Through EEG Informing SA-Task Based fMRI. The Activations Are Represented at Uncorrected p<0.001. The Coordinates Reported Are in Montreal Neurological Institute (MNI) Space

Region Label	**Cluster No.**	**Cluster Size**	**F-value**	**MNI Coordinates**			**Laterality**
				x	**y**	**z**	
Limbic lobe							
Parahippocampal gyrus, posterior division	1	23	28.4049	-18	-30	-20	L
Insular cortex	1	7	16.9601	-36	8	-16	L
Parietal Lobe							
Precuneous cortex	1	23	16.0803	12	-50	14	R
Parietal Operculum Cortex	1	6	17.9949	-36	-32	20	L

Supplementary Table 4

Neural Underpinnings of Pre-Task Resting-State Absolute Alpha (PRAA) Power Through EEG Informing SA-Task Based fMRI. The Activations Are Represented at Uncorrected p<0.001. The Coordinates Reported Are in Montreal Neurological Institute (MNI) Space

Region Label	**Cluster No.**	**Cluster Size**	**F-value**	**MNI Coordinates**			**Laterality**
				x	**y**	**z**	
Frontal lobe							
Frontal Pole	1	88	22.6308	22	40	44	R
	2	45	23.7646	-20	44	42	L
	3	30	23.6396	36	60	12	R
	4	27	25.7060	38	50	-18	R
	5	25	52.6997	-12	68	6	L
	6	16	16.7175	26	36	-20	R
Middle Frontal Gyrus	1	88	21.8376	26	18	48	R
	2	22	23.4022	40	10	50	R
	3	14	18.6128	-42	14	46	L
	4	12	22.3273	36	4	42	R
	5	7	14.4953	-34	8	56	L
	6	6	14.6212	-36	36	34	L
	7	5	14.7228	-48	20	34	L

Superior Frontal Gyrus	1	51	25.0062	2	42	44	L
	2	26	39.1437	-18	34	52	L
	3	12	15.0269	4	14	62	R
	4	5	13.1935	22	16	64	R
Inferior Frontal Gyrus	1	11	19.3702	44	20	24	R
Temporal Lobe							
Inferior Temporal Gyrus, posterior division	1	115	33.6045	60	-8	-34	R
Temporal Fusiform Cortex, posterior division	1	115	21.6578	38	-10	-38	R
Middle Temporal Gyrus, posterior division	1	24	25.5177	-54	-46	4	L
	2	21	27.9914	-62	-24	-18	L
	3	8	16.9889	52	-36	-2	R
Temporal pole	1	14	19.0041	-50	6	-22	L
	2	6	17.2582	42	18	-36	R
	3	6	17.2032	-50	8	-32	L
Middle Temporal Gyrus, anterior division	1	20	33.3017	54	2	-38	R
Parietal lobe							
Postcentral Gyrus	1	21	24.7294	50	-22	56	R
	2	19	23.4539	46	-22	44	R
	3	12	16.5745	56	-12	50	R
Precuneous Cortex	1	20	23.7123	-6	-50	54	L
Superior Parietal Lobule	1	8	14.7163	-30	-42	48	L
Occipital lobe							
Occipital Pole	1	48	23.9012	-24	-94	14	L

Lateral Occipital Cortex, superior division	1	24	16.9164	-38	-72	38	L
Limbic lobe							
Right Hippocampus	1	20	26.7652	24	-16	-24	R
Cingulate Gyrus, posterior division	1	20	17.3482	-4	-20	44	L
Sub Cortical							
Right Thalamus	1	13	17.7144	2	-24	6	R
	2	8	15.1251	6	-18	12	R
Left Thalamus	1	6	17.0557	-4	-10	4	L