

## Acronyms and Symbols

$\alpha$	Angle of Attack	PPE	Personal Protective Equipment
AVL	Athena Vortex Lattice	RC	Radio Controlled
$\beta$	Side Slip Angle	$R_i$	Internal Resistance
$C_{L,slope}$	Coefficient of Lift in Relation to Speed	RPM	Revolutions per Minute
CA	Cyanate Acrylic	UHMW	Ultra High Molecular Weight
$C_D$	Drag Coefficient	VN	Velocity - Load Factor
CFD	Computational Fluid Dynamics	$\omega$	Frequency
CG	Center of Gravity		
$C_L$	Lift Coefficient		
$C_{l,\beta}$	Rolling Moment Due to Side Slip		
$C_{n,\beta}$	Yawing Moment Due to Side Slip		
$C_{L,max}$	Maximum Lift Coefficient		
$C_M$	Moment Coefficient		
$C_{m,\alpha}$	Pitching Moment Due to Angle of Attack		
ESC	Electronic Speed Controller		
$\zeta$	Damping Ratio		
FOS	Factor of Safety		
$I_0$	No-Load Current		
$\lambda$	Dynamic Mode Eigenvalue		
KV	Motor Constant		
LD	Lift to Drag Ratio		
$LD_{max}$	Maximum Lift to Drag Ratio		
MAC	Mean Aerodynamic Chord		
MPH	Miles per Hour		

