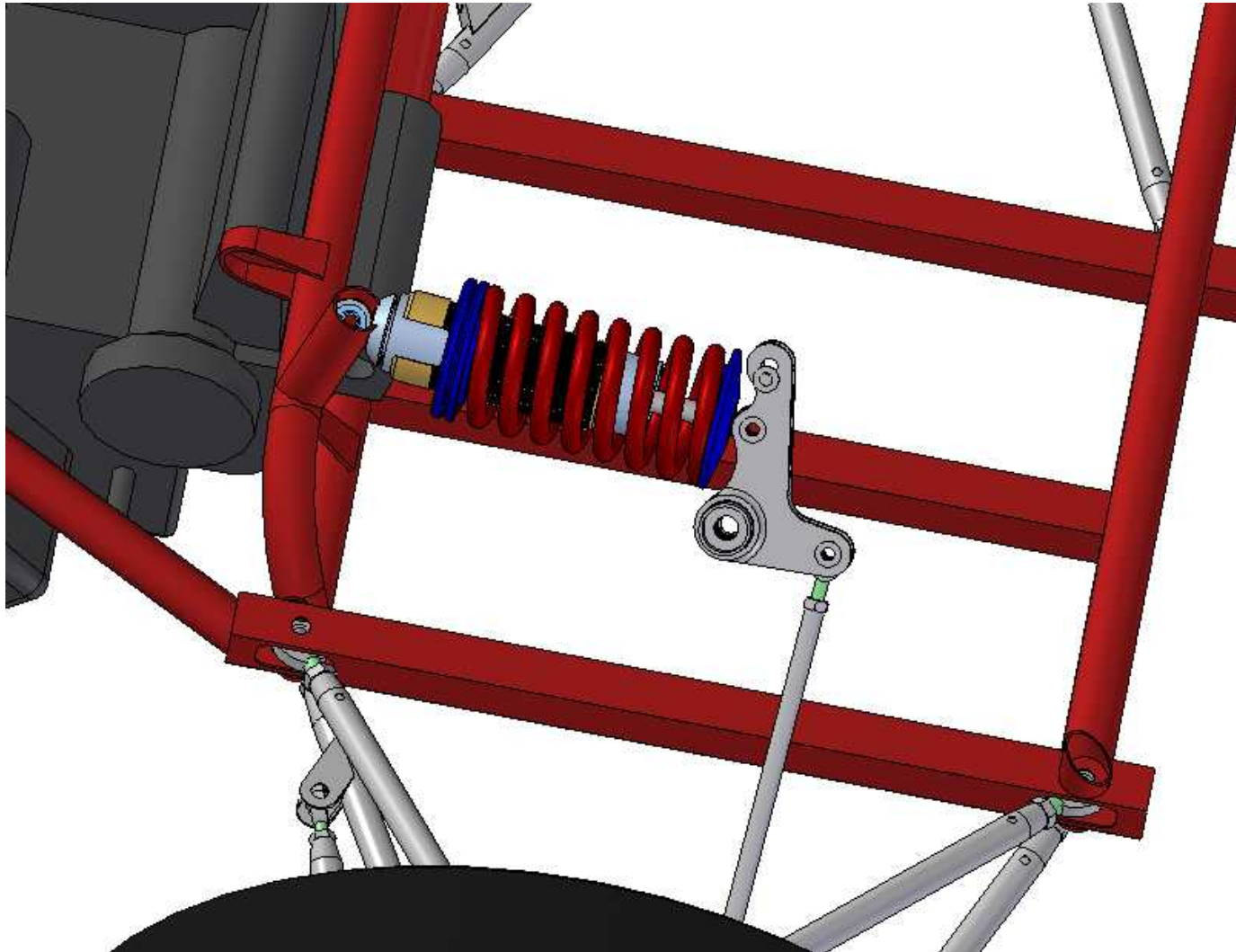
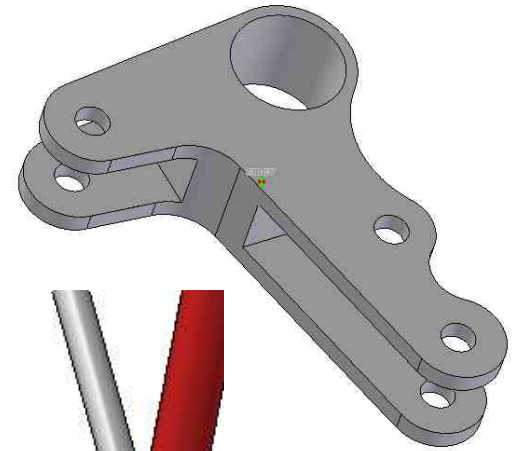


# Finite Element Analysis of FSAE Rear Bellcrank

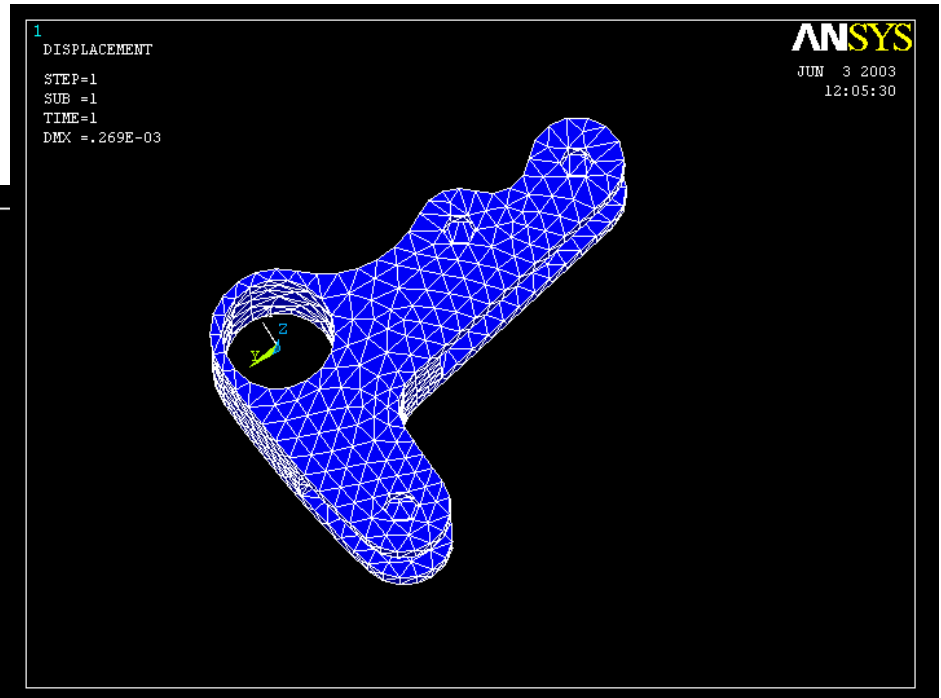
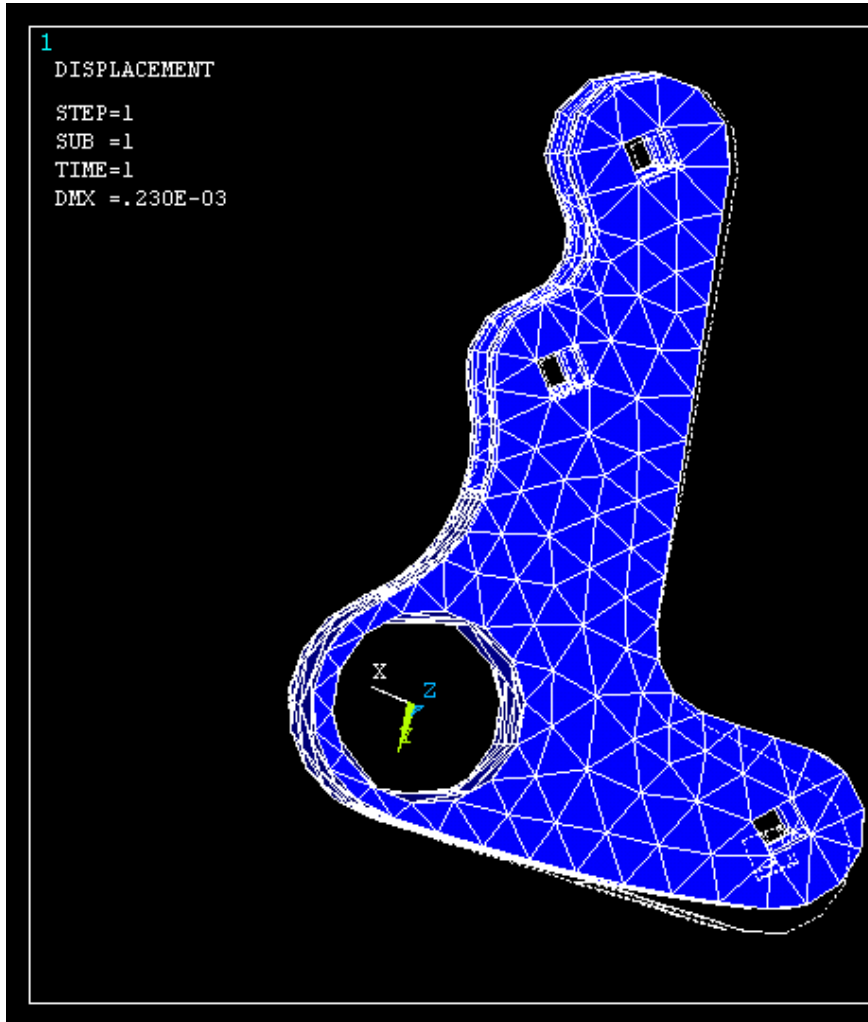
Scott Smith

June 5, 2003

Force from pushrod:  
1120.1 lb

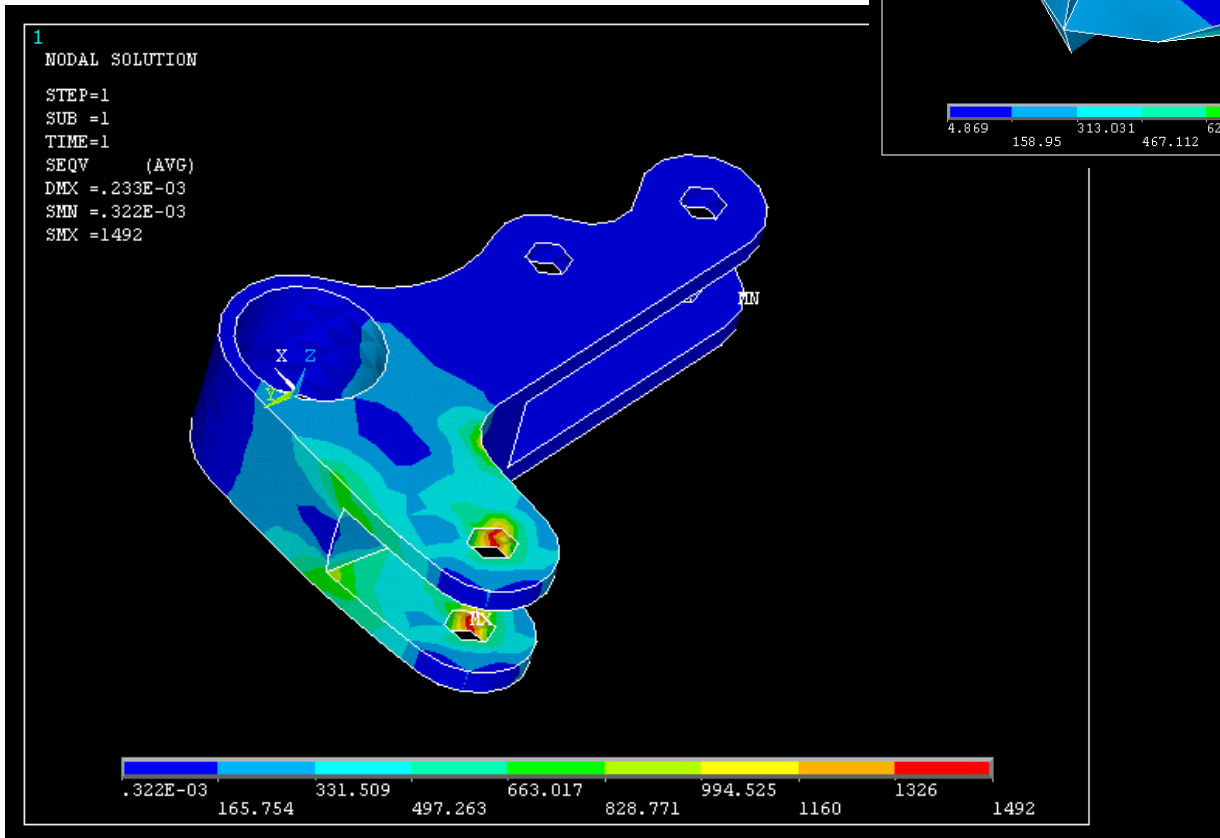
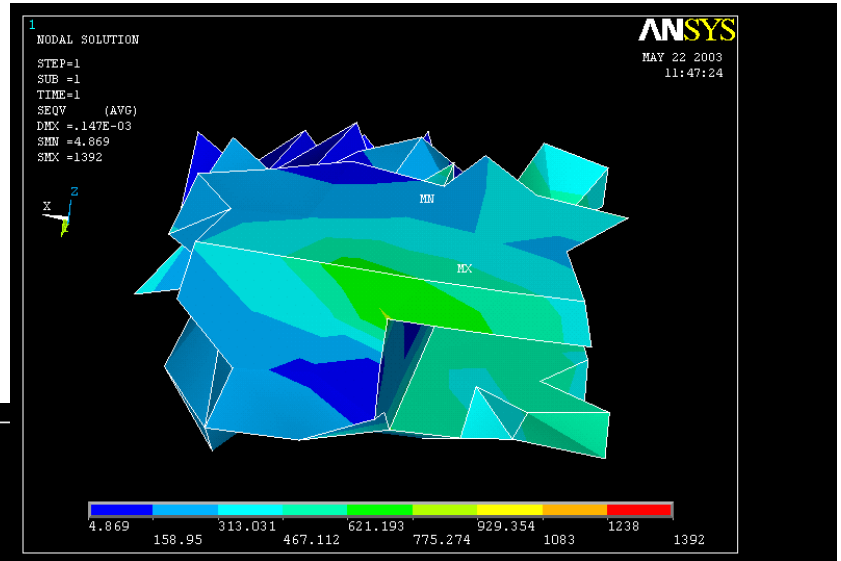


Maximum Deflection:  $0.269 \times 10^{-3}$



Max Stress: 1492 psi

Min Stress: 4.869



	Modal Frequencies [Hz]				
Element Size	First	Second	Third	Fourth	Fifth
0.3	57.302	57.633	216.71	216.92	222.11
0.25	57.009	57.313	215.43	215.97	219.21
0.2	56.655	56.954	215.18	215.42	218.93

## Second Mode

## Third Mode

