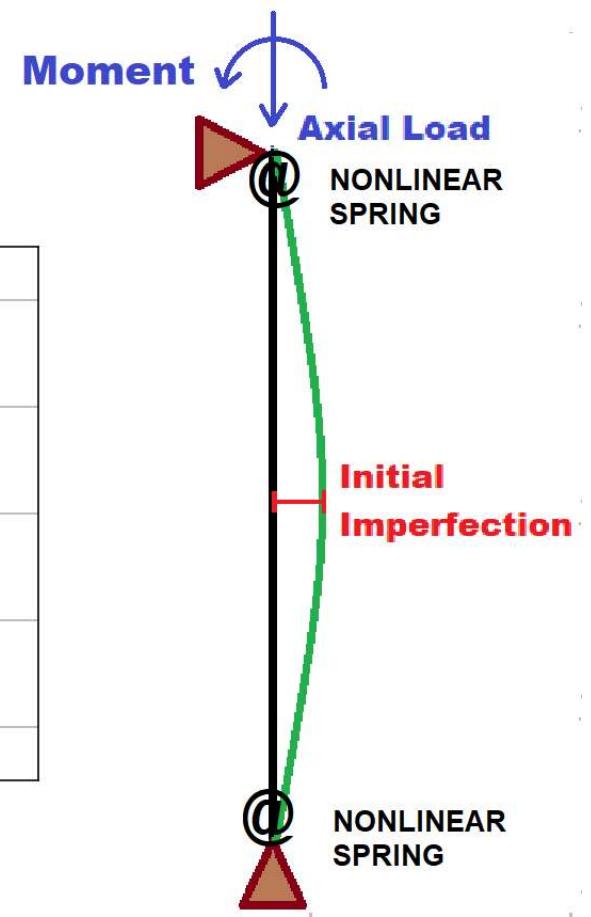
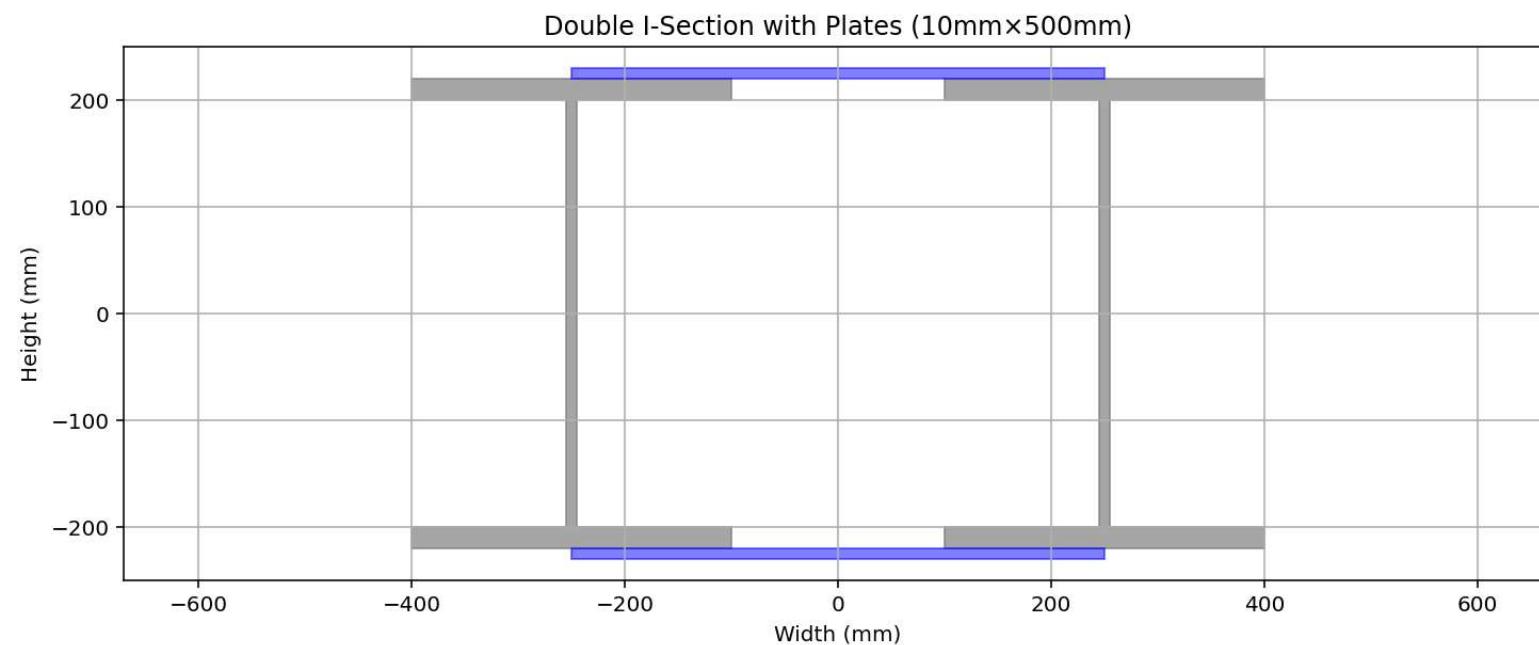
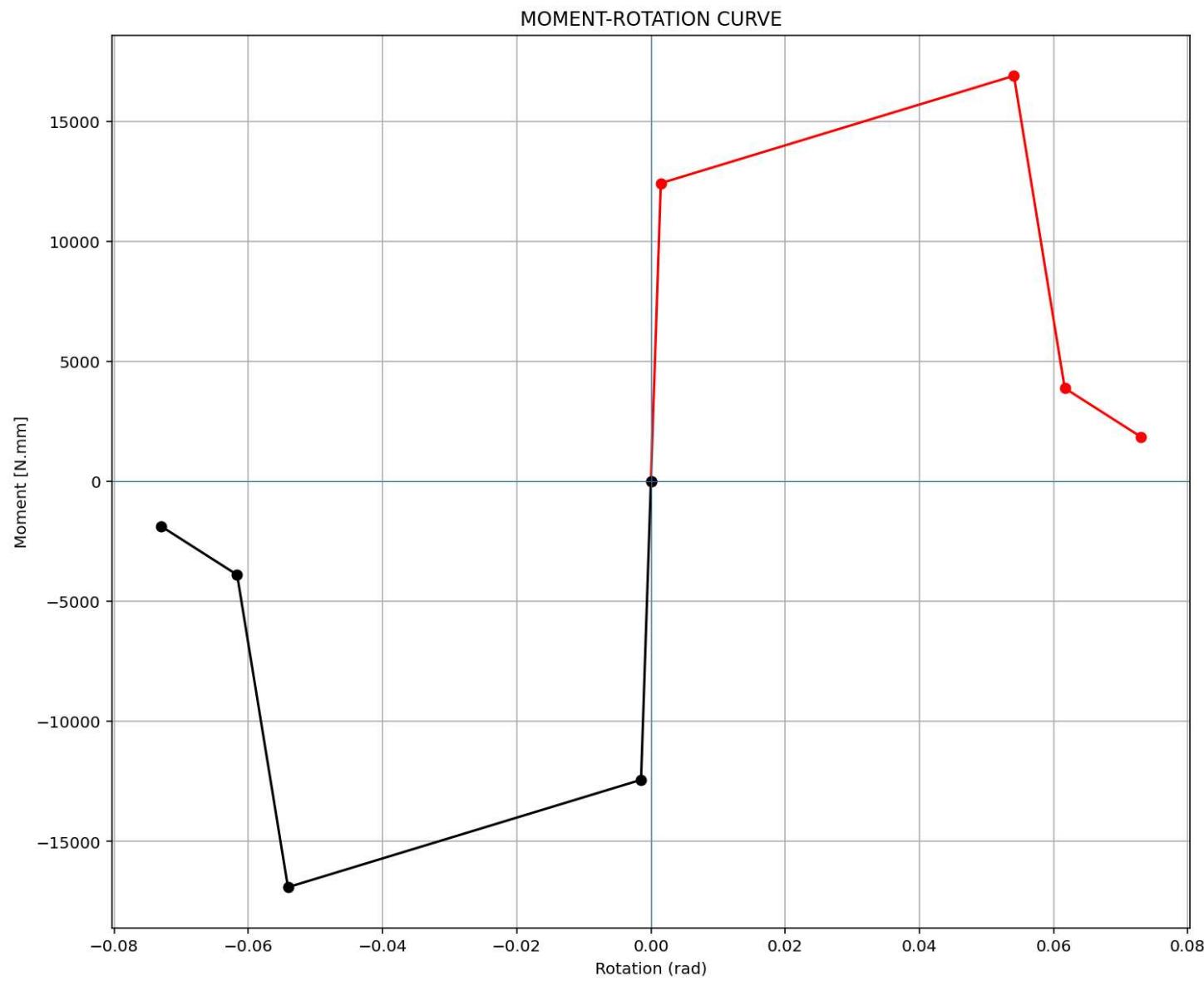


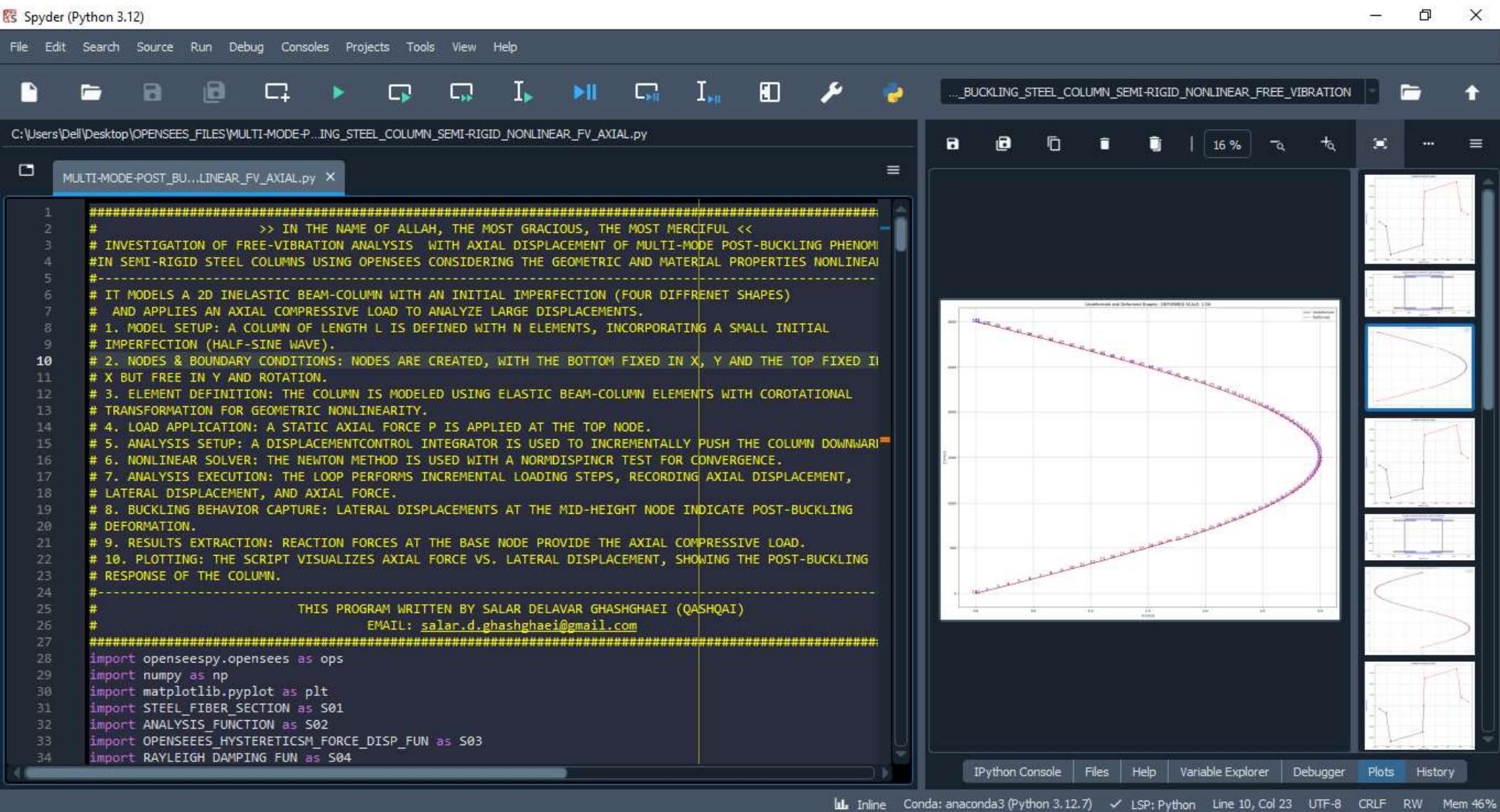
>> IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL <<

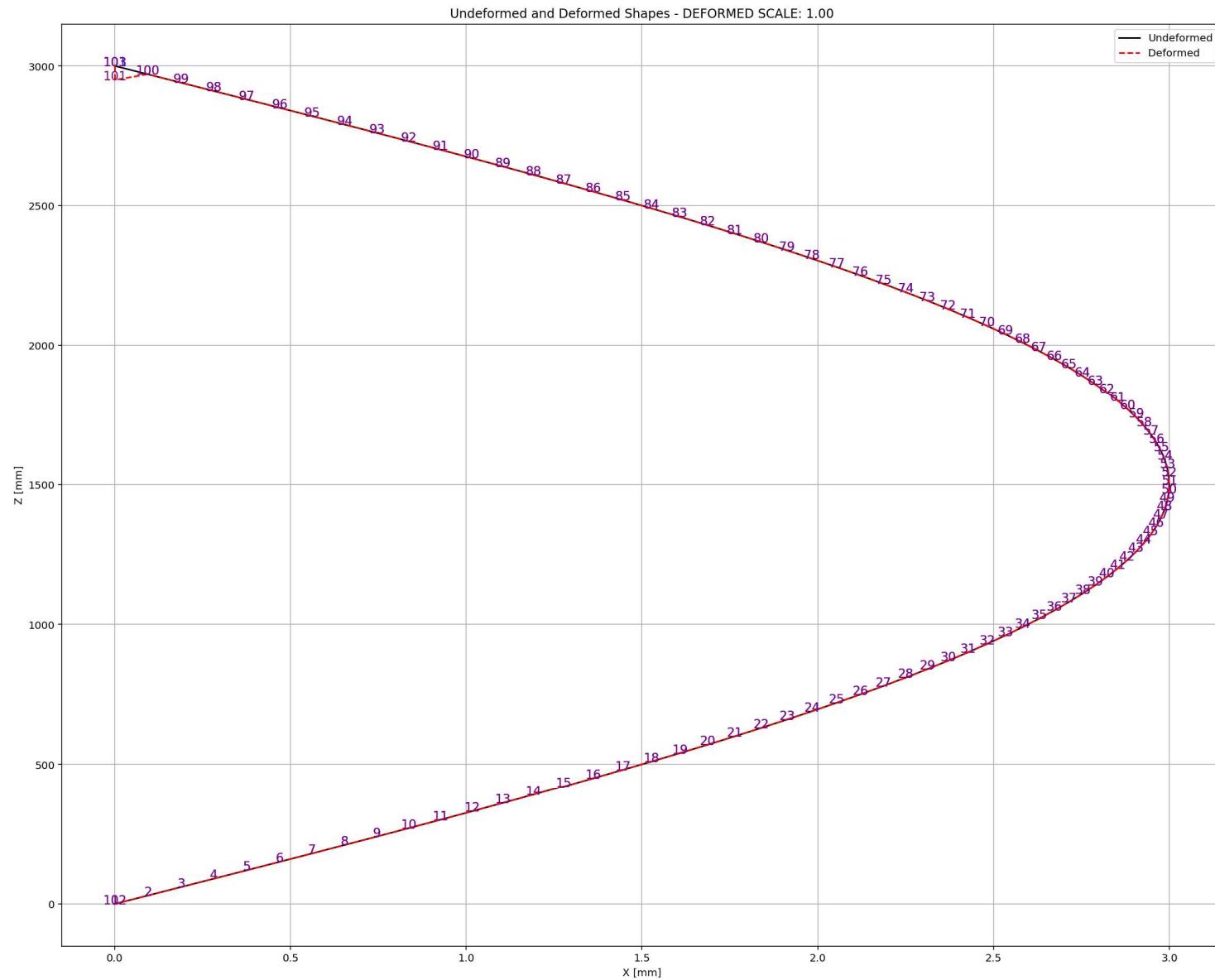
INVESTIGATION OF FREE-VIBRATION ANALYSIS WITH AXIAL DISPLACEMENT OF MULTI-MODE POST-BUCKLING PHENOMENA IN SEMI-RIGID STEEL COLUMNS USING OPENSEES CONSIDERING THE GEOMETRIC AND MATERIAL PROPERTIES NONLINEARITY

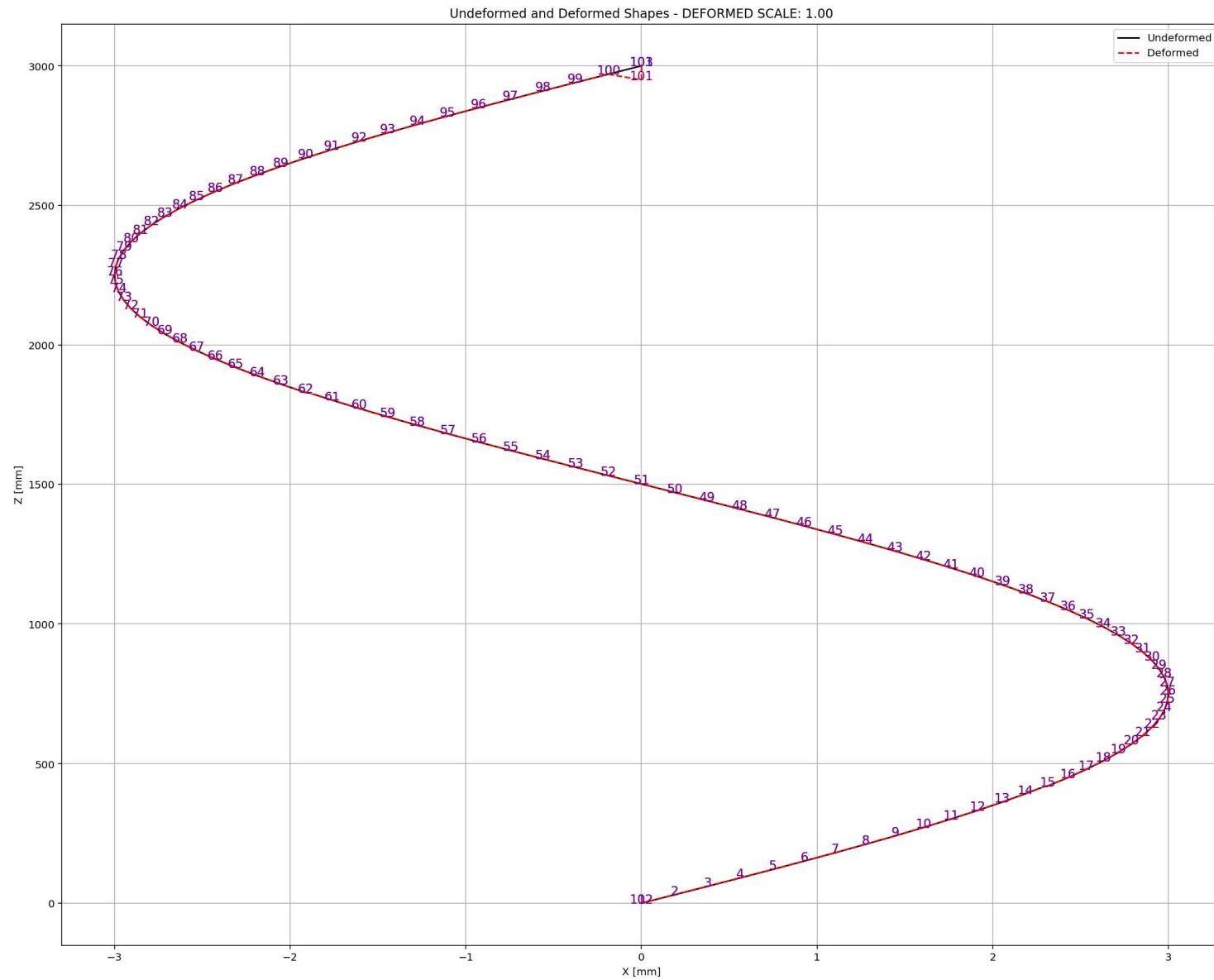
WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)

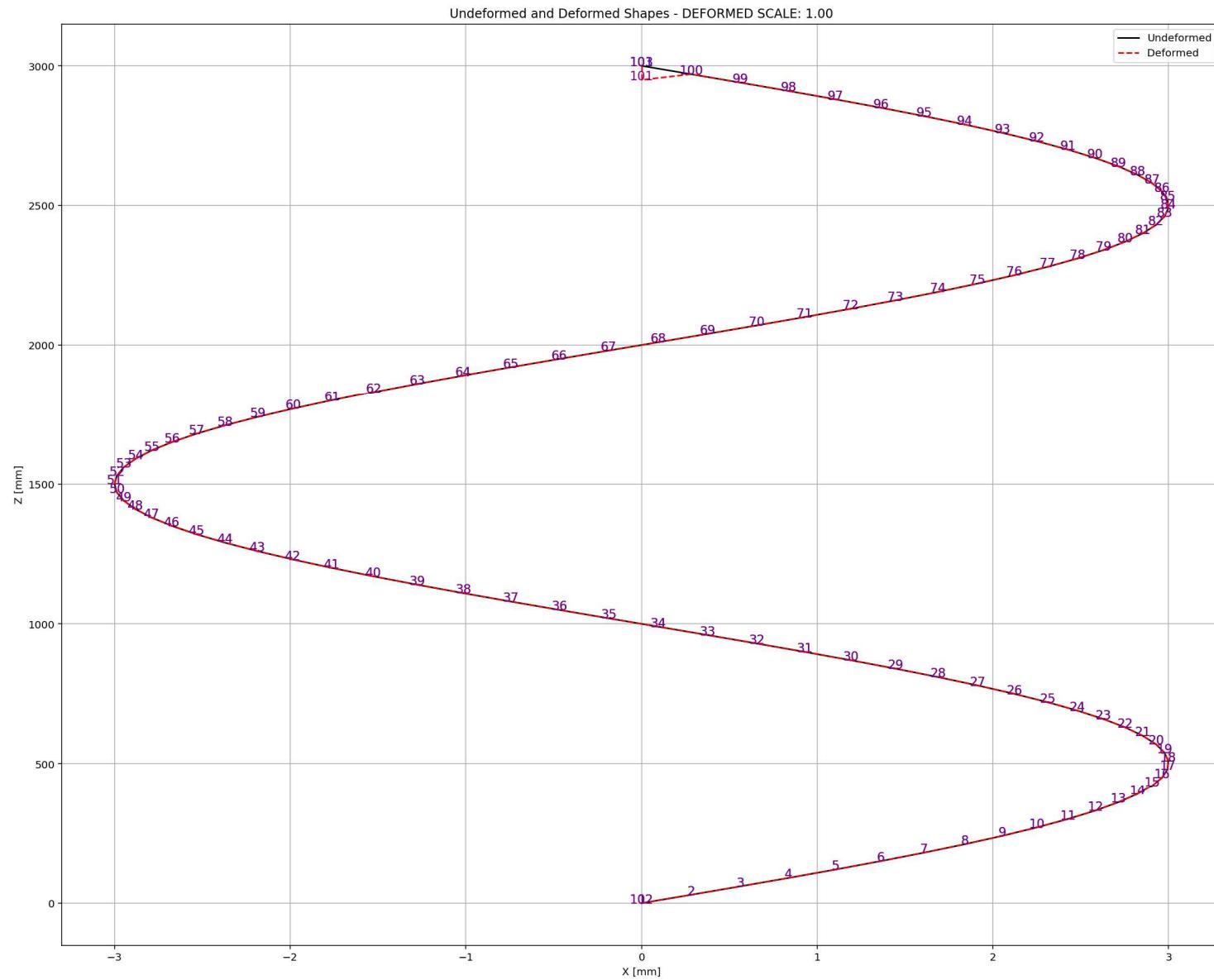


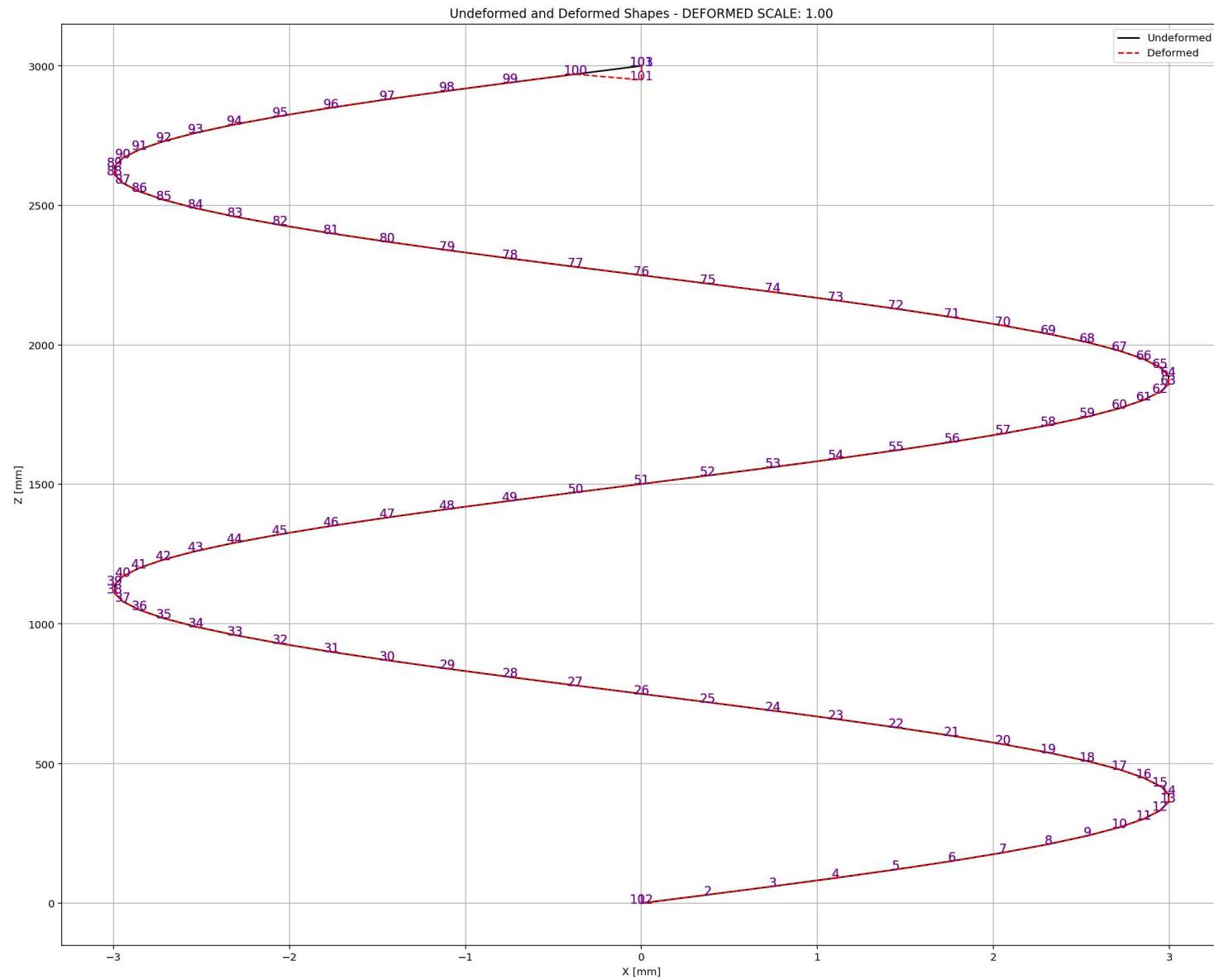


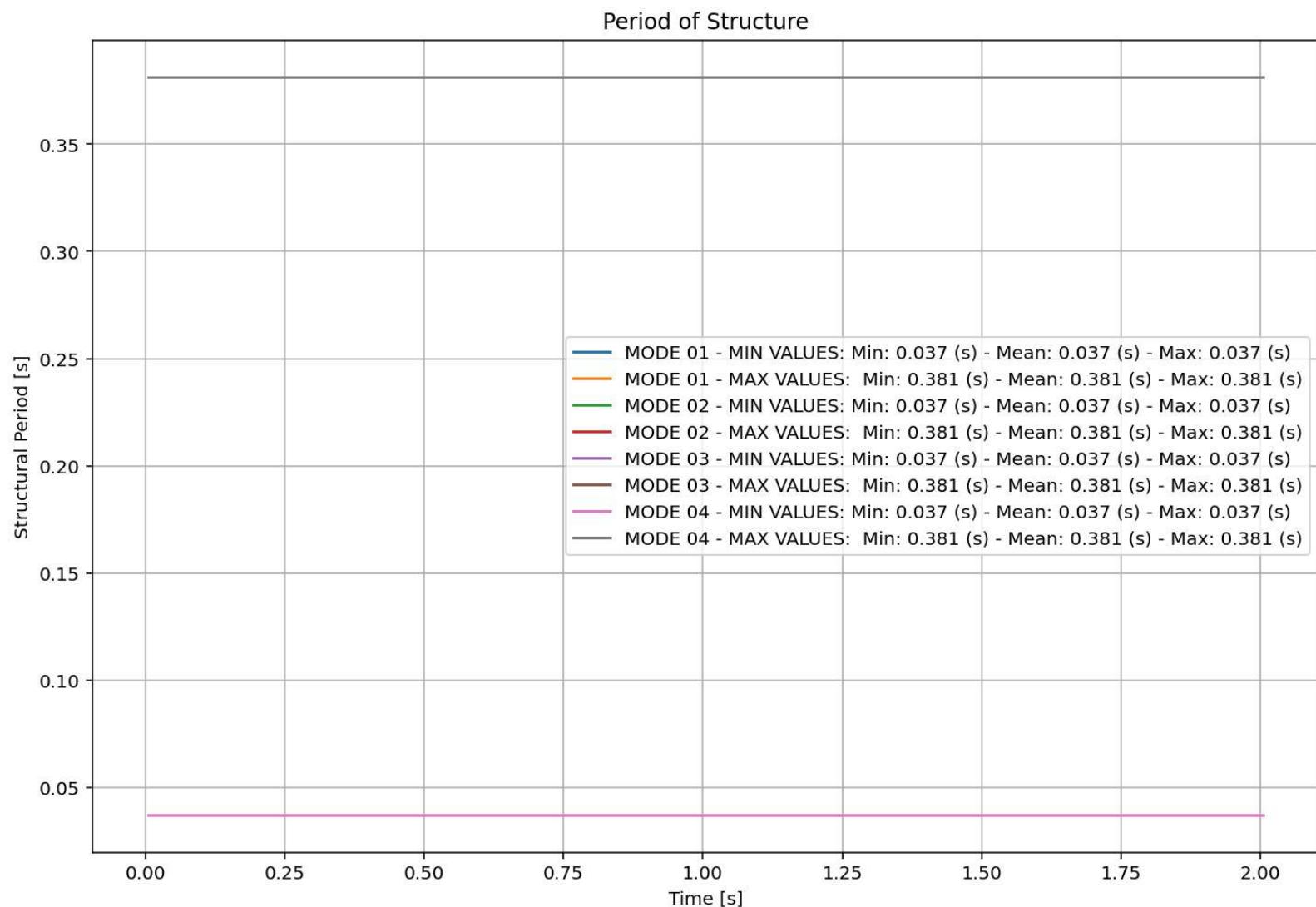


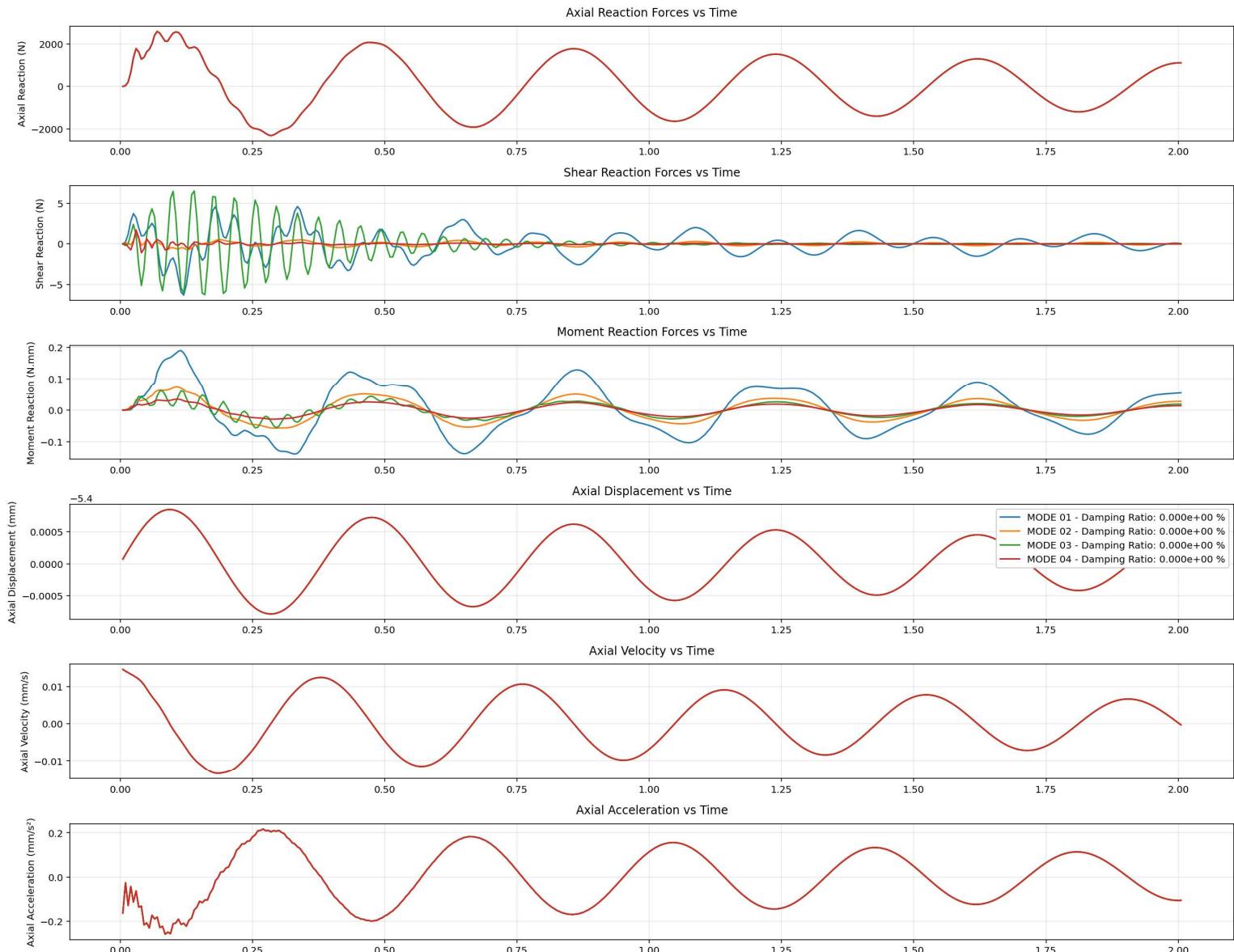




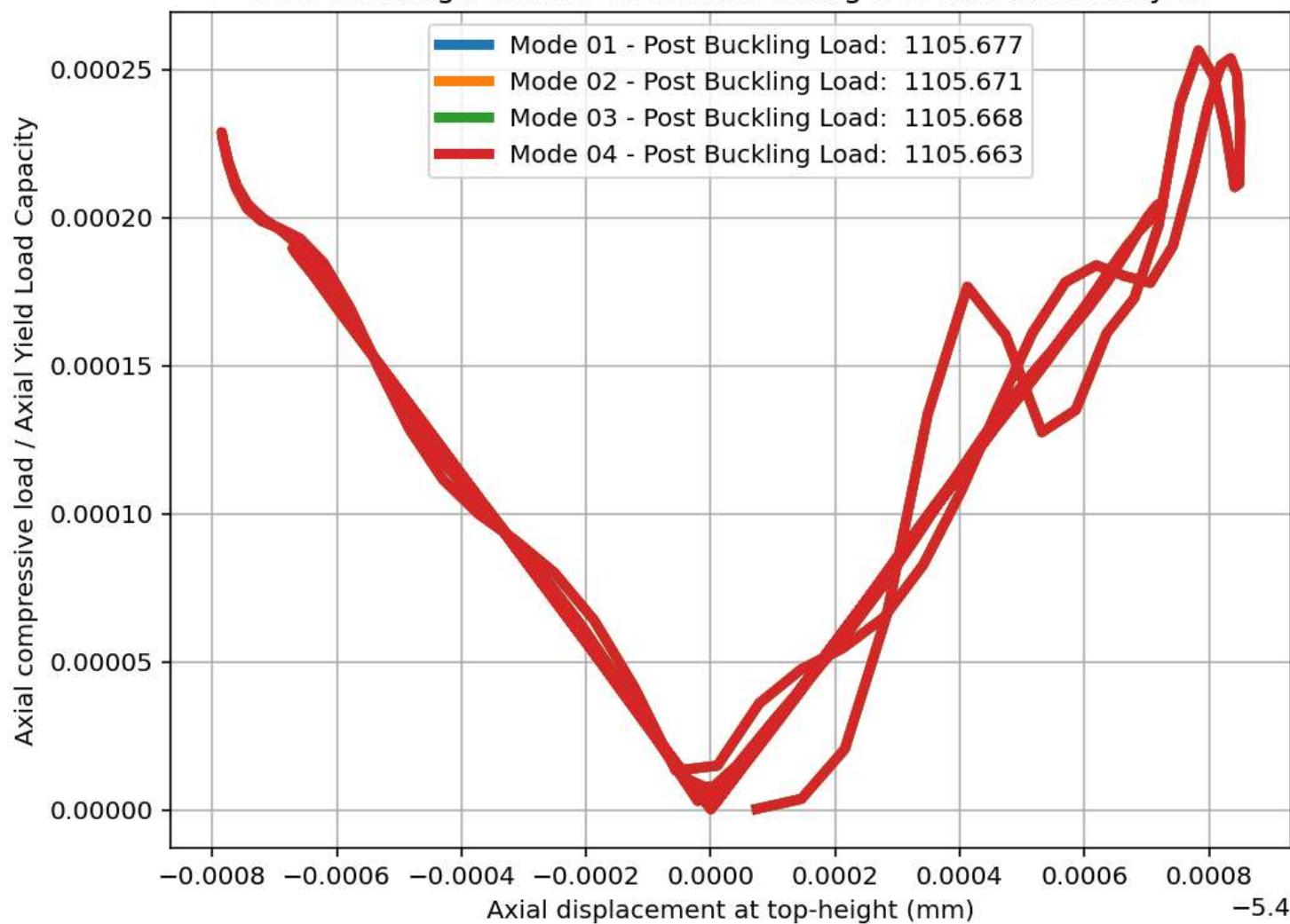




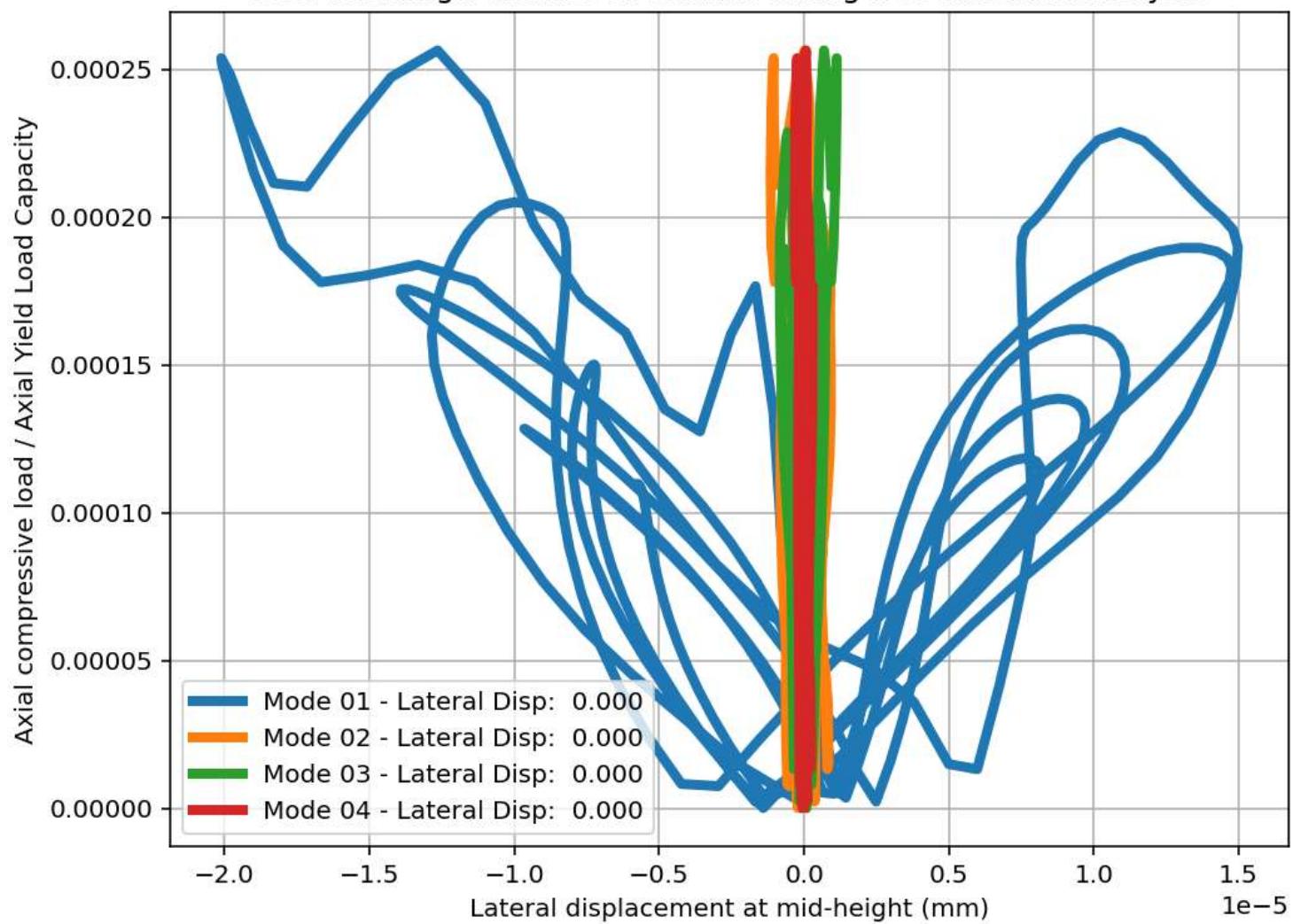




Post-buckling behavior of column during free-vibration analysis



Post-buckling behavior of column during free-vibration analysis



Post-buckling behavior of column during free-vibration analysis

