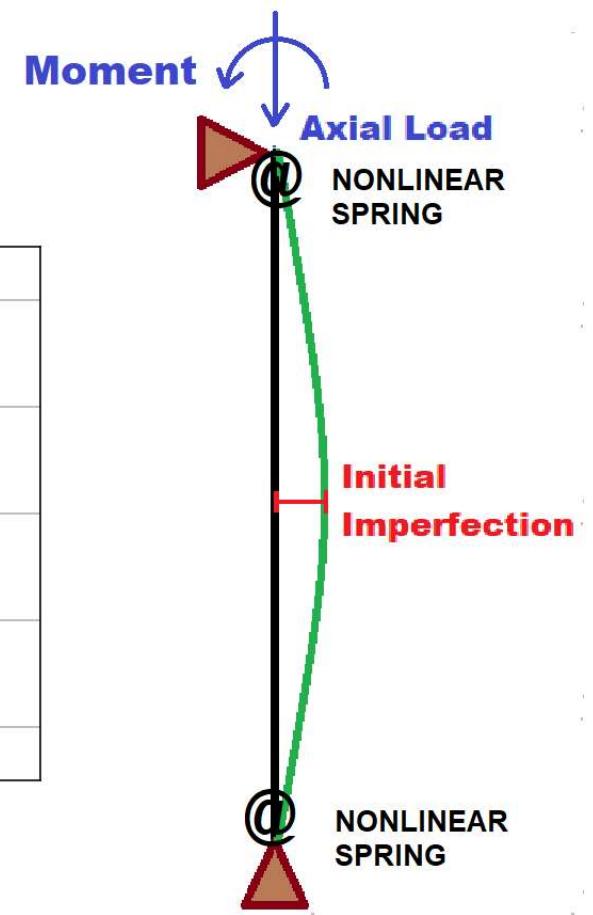
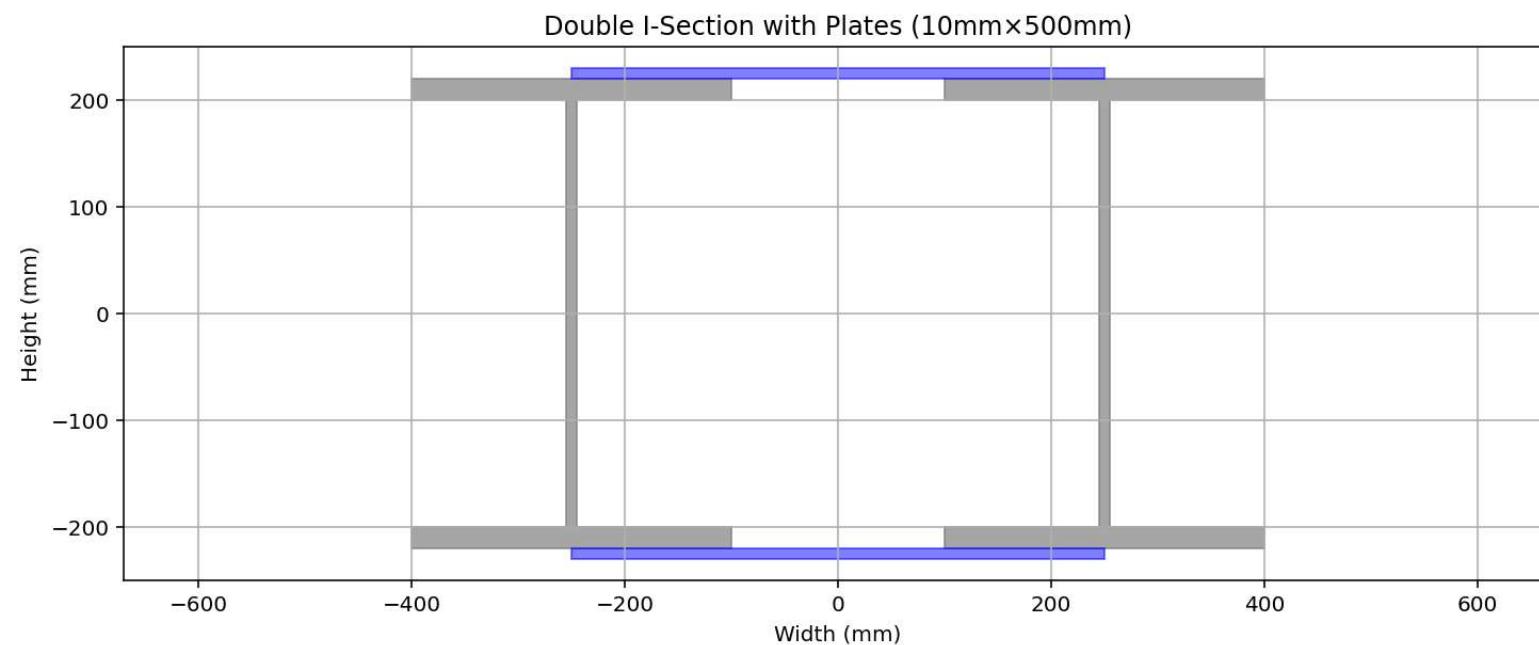
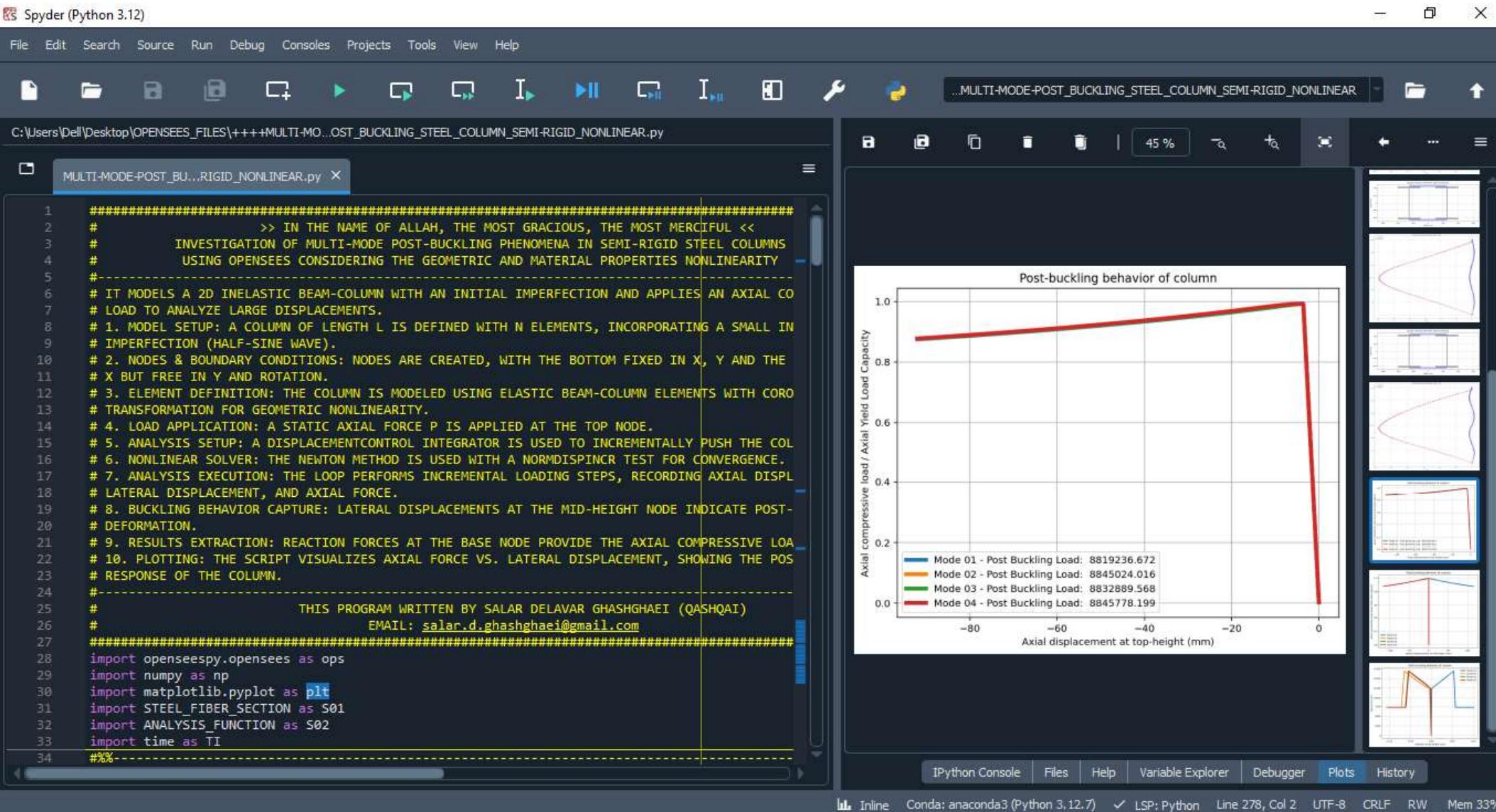


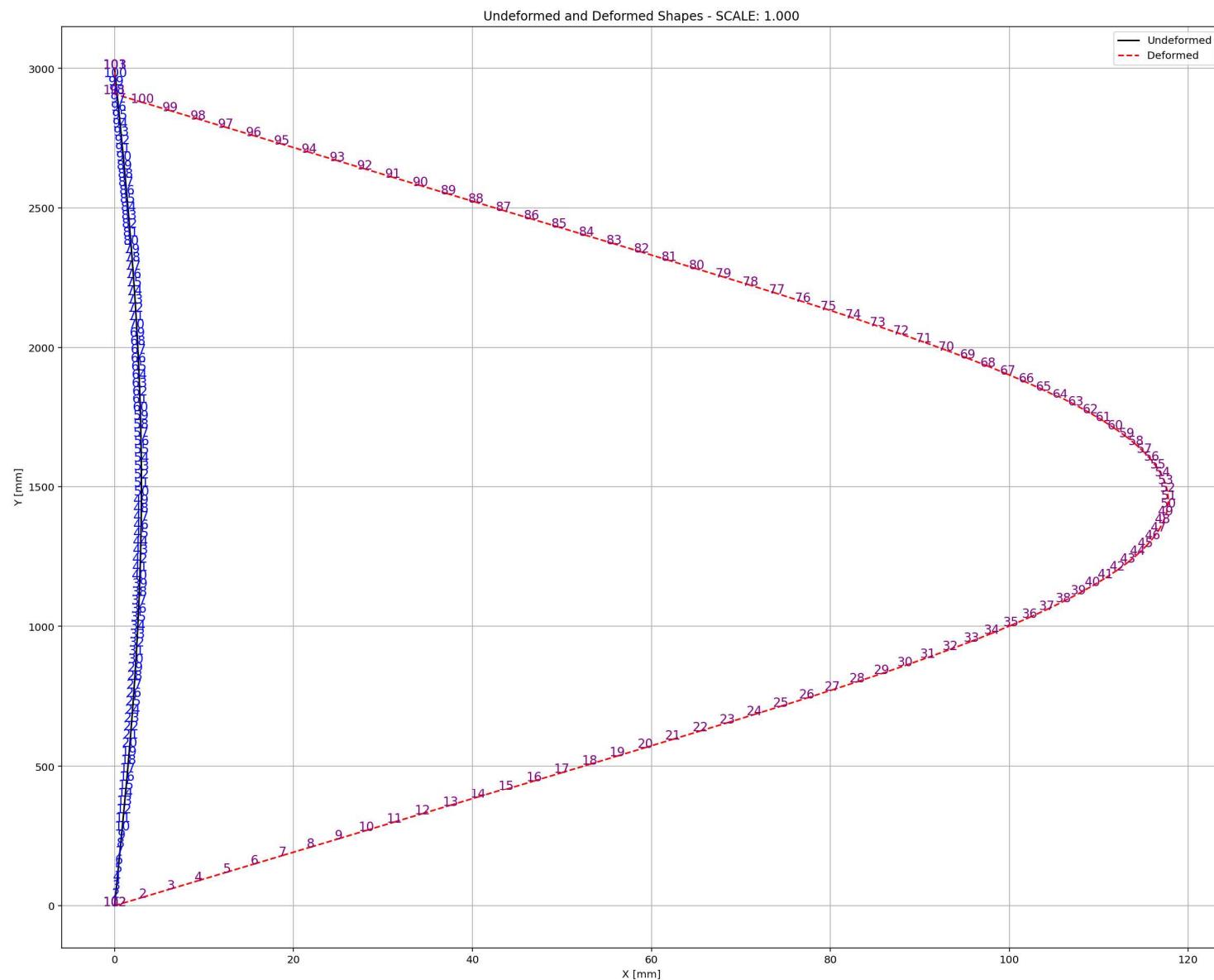
>> IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL <<

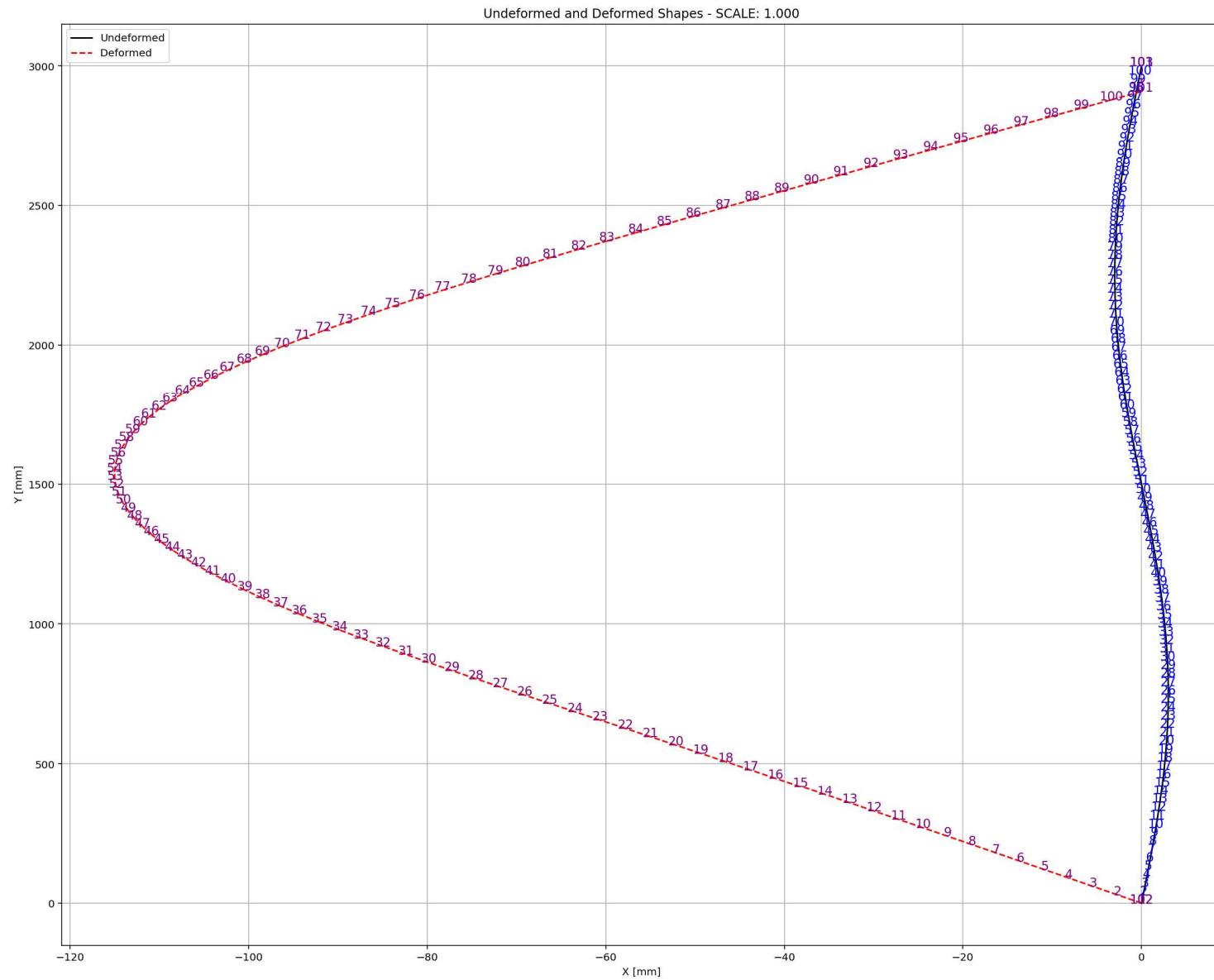
# INVESTIGATION OF MULTI-MODE POST-BUCKLING PHENOMENA IN SEMI-RIGID STEEL COLUMNS USING OPENSEES CONSIDERING THE GEOMETRIC AND MATERIAL PROPERTIES NONLINEARITY

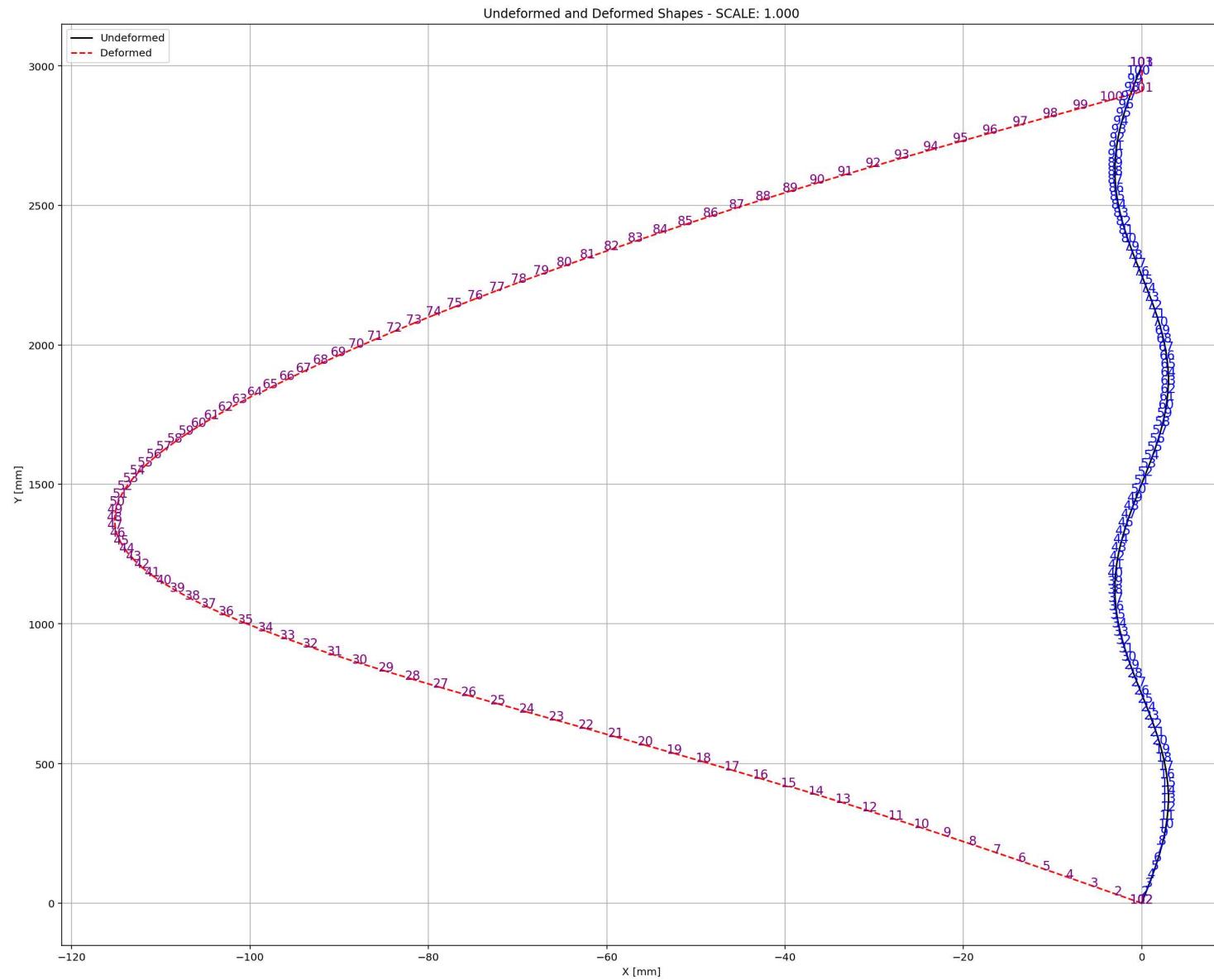
WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)

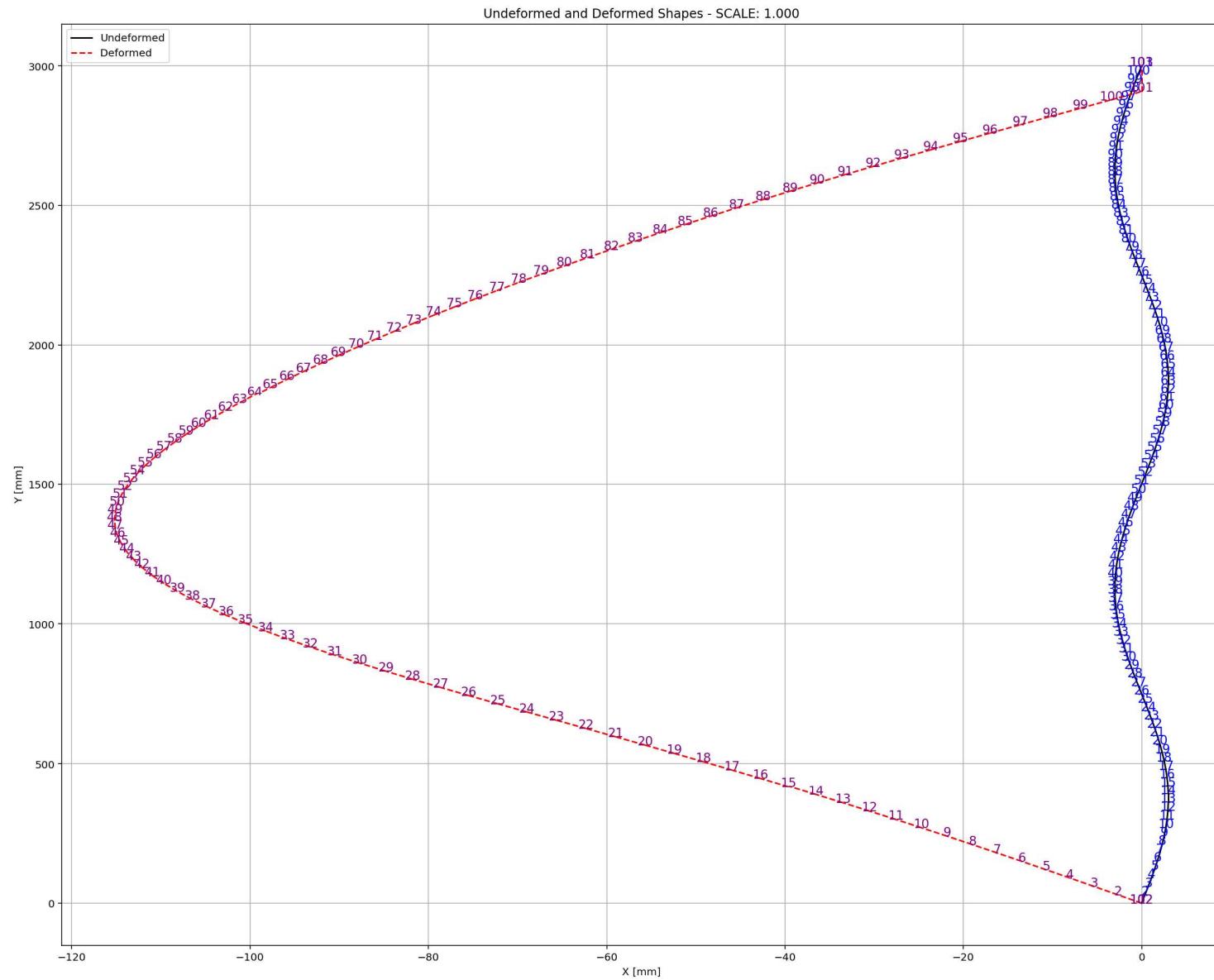




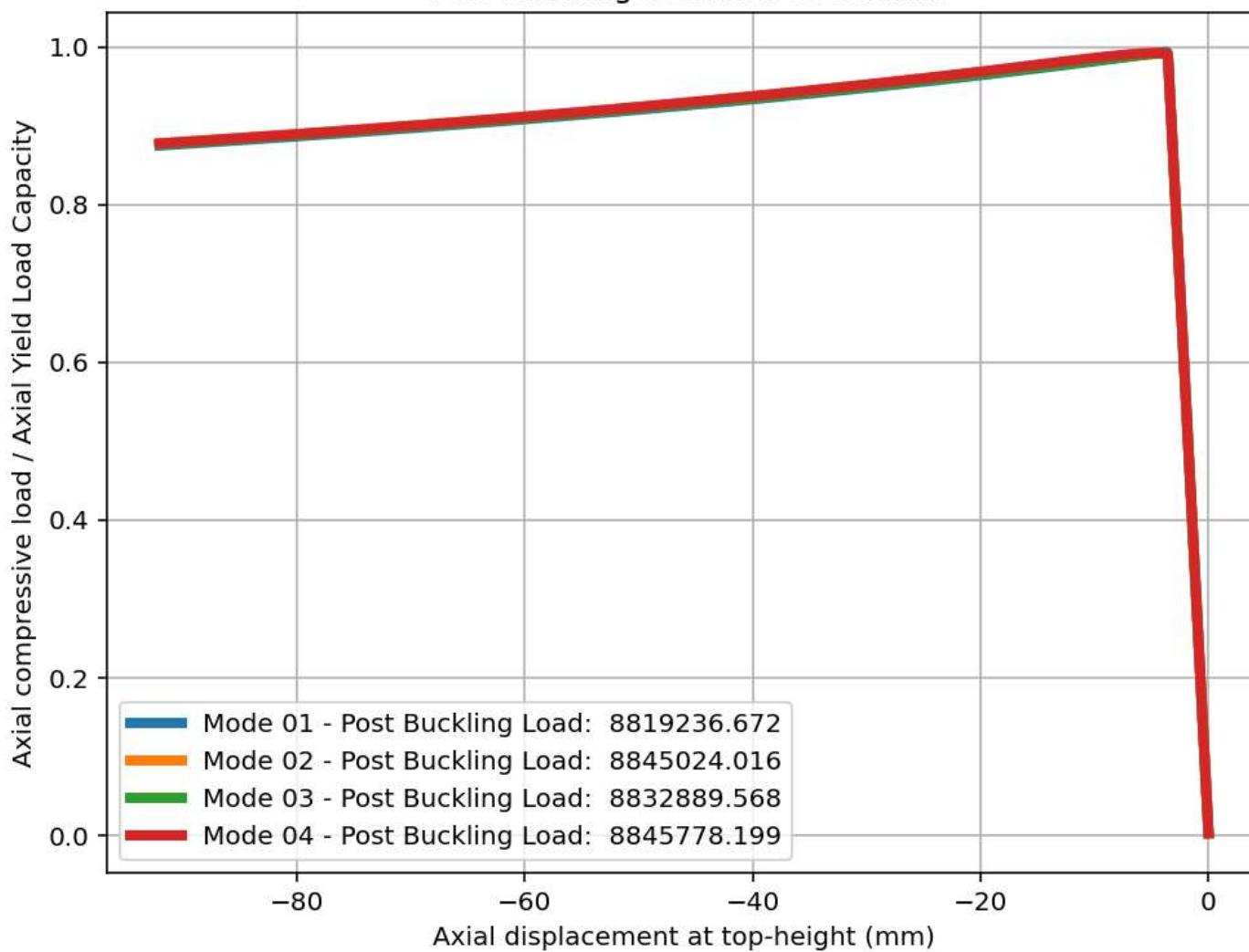




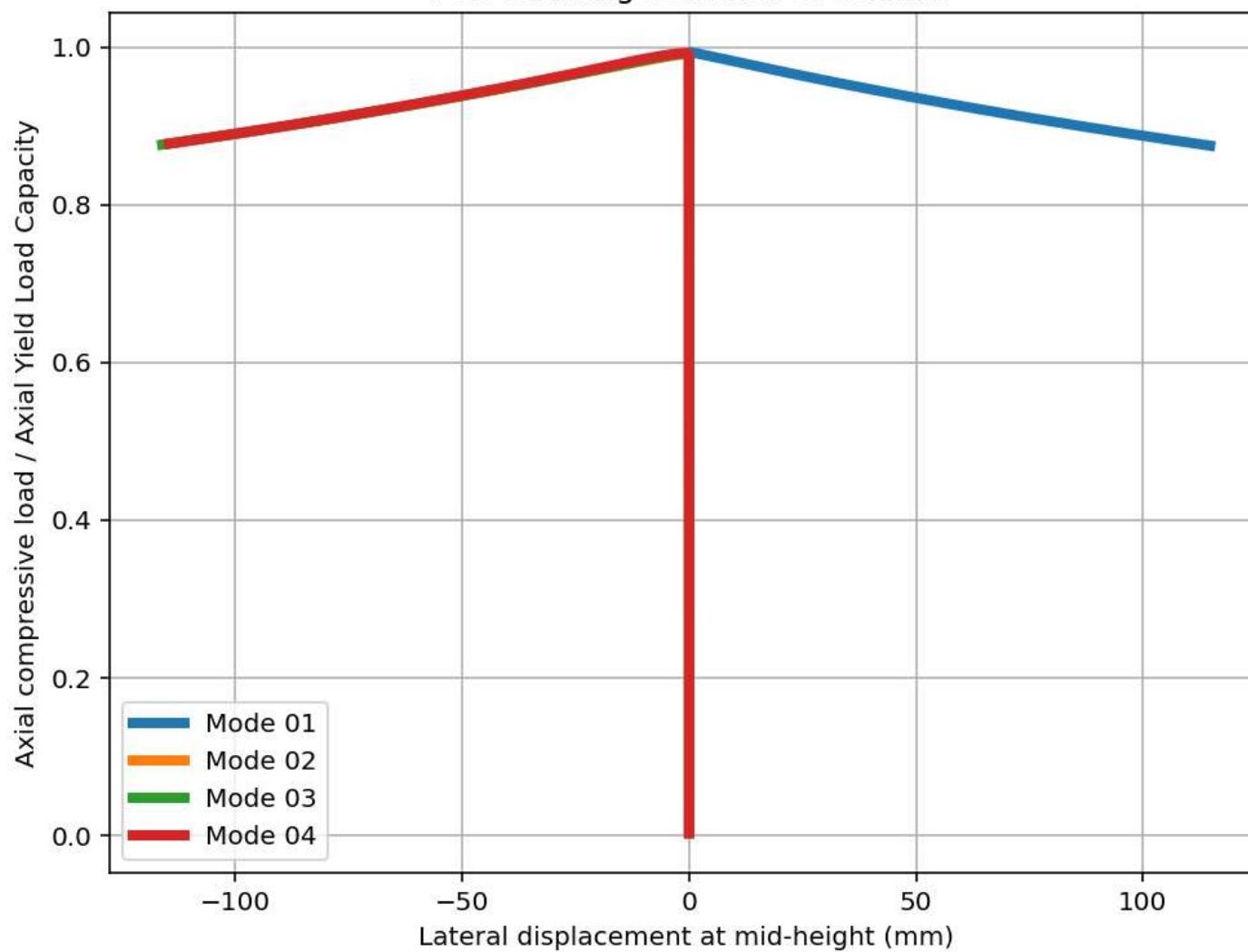




### Post-buckling behavior of column



### Post-buckling behavior of column



### Post-buckling behavior of column

