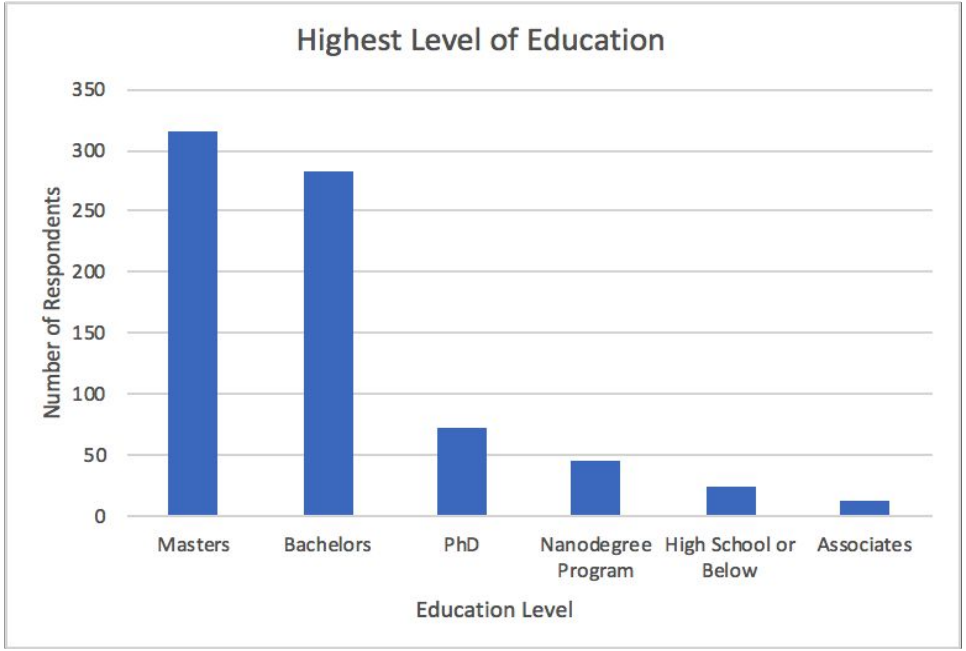
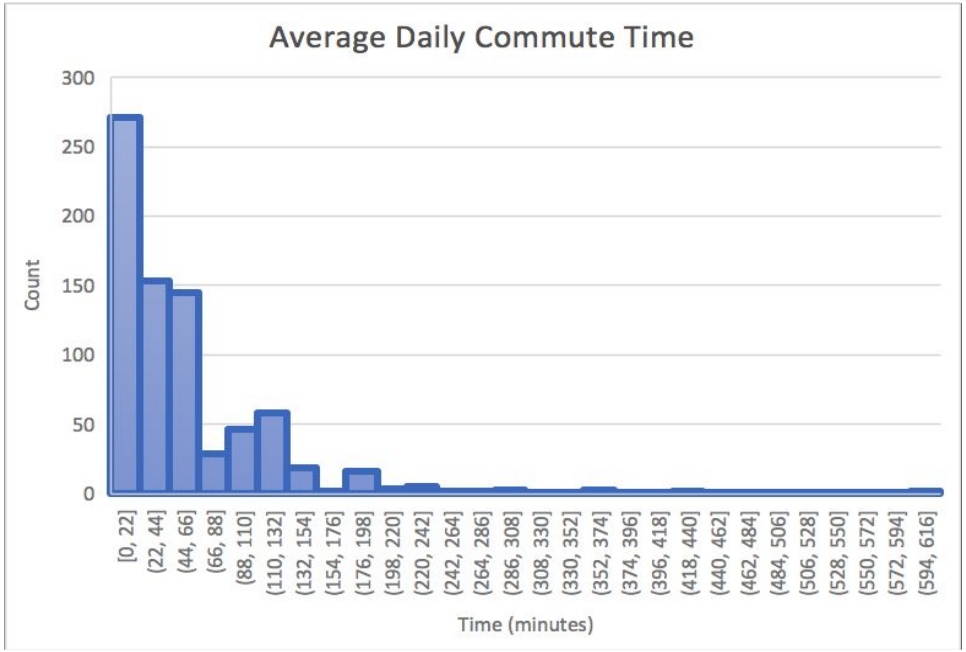
Project 2 - Excel

Highest Level of Education



The highest level of education for the survey respondents was distributed between Masters and Bachelors. Out of the survey respondents 316 (approximately 42%) have a Masters degree, while 283 (approximately 37.6%) have a Bachelors degree. Only 12 (approximately 1.6%) of the candidates have an Associate.

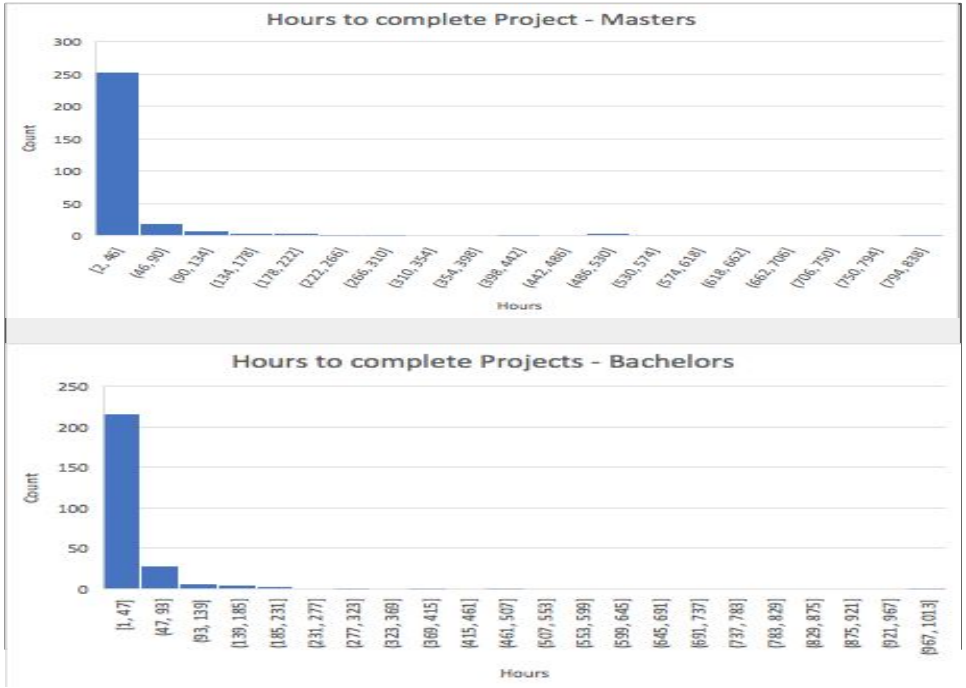
Average Daily Commute Time



The histogram for the average daily commute time is right skewed. This implies that the mean is higher than the median, which is confirmed with the calculations which shows that the mean is equal to approximately 51 minutes and the median is equal to 35 minutes.

The Standard Deviation is 58 minutes which is a high value and is due to the large range in the data i.e. having a minimum of 0 and maximum of 600 minutes (commute times in excess of 250 minutes everyday in the data table are suspected to be an outliers).

Hours to complete Projects for Masters and Bachelors



These are the histograms for the Hours required to complete the projects for survey respondents with a Masters or Bachelors degree.
Both distributions appear to be right skewed. The mean for each group is almost the same at 35.5 hours. This implies that candidates with Masters or Bachelors take the same amount of time to complete a Nanodegree project.
The standard deviation for Masters respondents is 83.2 hours whereas for the Bachelors respondents it is 85.31 hours. This is due to the Bachelors candidates having a maximum number of hours equal to 1000, (an outlier) which is higher than the maximum of 800 for the Masters candidates
The median for both Masters and Bachelor degree holders is equal to 12 hours. This implies that both Masters and Bachelor degree holders took equal amount of time to complete the projects.
The mode for Masters candidates is 8 hours, while the mode for Bachelors candidates is 10 hours. This shows that more bachelor degree holders took a higher time to complete the nanodegree projects.

Age of Survey Respondents

The age of respondents has been shown to be as a box and whisker plot.
The mean age is equal to 33 years and the median age is 32 years; since these are close to each other, the distribution is almost symmetric.
The minimum age is 19 years and the maximum age is 79 years (which can be assumed to be an outlier, as it would be unreasonable for someone of that age to be a student). The range of the age is 59 years, which is a large range and possibly due to the presence of an outlier (79) as the maximum. This also implies that there is greater dispersion in the data.
The 1st quartile is 27 years and the 3rd quartile is 38 years.