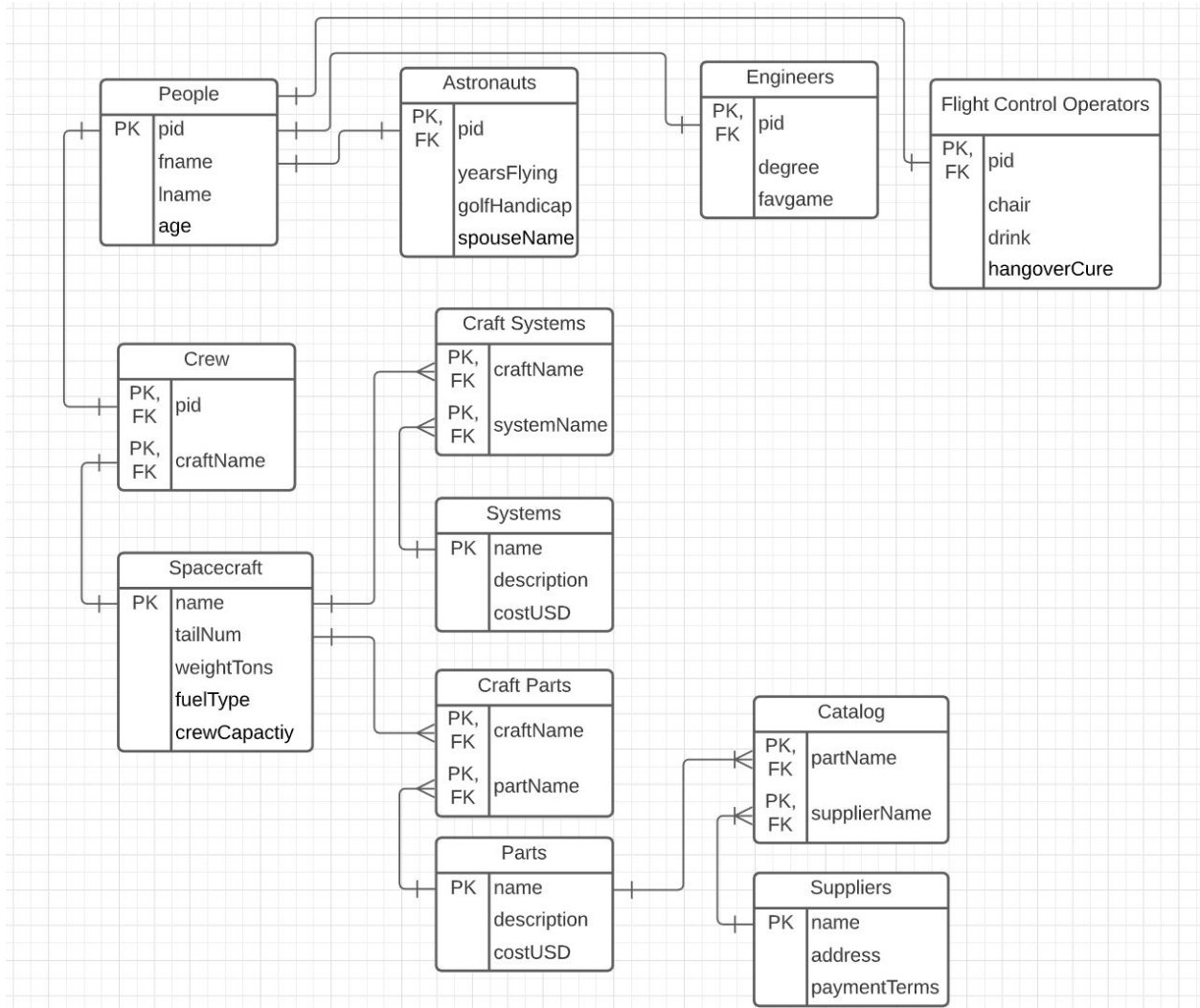1. First name, last name, age, years flying, golf handicap, spouse name, degree, favorite game, chair, drink, and hangover cure are all functionally dependent on pid. Astronauts, Engineers, and Flight Control Operators are subtypes of People and use pid. Tailnum, weight, fuel type, and crew capacity are functionally dependent on the spacecraft name. Systems and Parts have description and cost which are also dependent on their own names. Lastly, suppliers addresses and payment terms are dependent on their name.

2.

3. This database is in BCNF. It satisfies 1st Normal Form because all values are atomic, 2nd Normal Form because there are no partial dependencies, and 3rd Normal Form because there are no Transitive Dependencies. Lastly, it's in BCNF because there are no overlapping candidate keys.