

2nd Year-Project: ECEP 19 and 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

AC-Student
Date

Project 1: 19-20

1. What are the components of the system? **10%**
The system consists of a motor, a gear, a pulley, a string, a weight, and a spring.
2. How are the components connected? **10%**
The motor is connected to the gear, which is connected to the pulley. The string is connected to the weight, which is connected to the spring.
3. What are the forces acting on the system? **10%**
The forces acting on the system are the weight of the weight, the tension in the string, and the spring force.
4. How are the forces related? **10%**
The forces are related by the equation $F = ma$, where F is the net force, m is the mass, and a is the acceleration.
5. What are the initial conditions? **10%**
The initial conditions are the initial position, velocity, and acceleration of the weight.
6. What are the boundary conditions? **10%**
The boundary conditions are the initial and final positions, velocities, and accelerations of the weight.
7. What are the equations of motion? **10%**
The equations of motion are the differential equations that describe the motion of the weight.
8. How are the equations solved? **10%**
The equations are solved using numerical methods, such as the Runge-Kutta method.
9. What are the results of the simulation? **10%**
The results of the simulation are the position, velocity, and acceleration of the weight as a function of time.
10. How are the results compared to the experimental data? **10%**
The results are compared to the experimental data by plotting the position, velocity, and acceleration of the weight against time.

Parameter	Measured value	Calculated value
Spring constant (N/m)	100	100
Mass (kg)	0.1	0.1
Initial position (m)	0.1	0.1
Initial velocity (m/s)	0	0
Initial acceleration (m/s ²)	0	0
Final position (m)	0.1	0.1
Final velocity (m/s)	0	0
Final acceleration (m/s ²)	0	0

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DJ Losen



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