

# Internship Project : Camera Control Module

12 Sept 2024

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## Snellium

<http://>

Project manager

Project dates

15 Jul 2024 - 11 Oct 2024

Completion

68%

Tasks

56

Resources

0

## Tasks

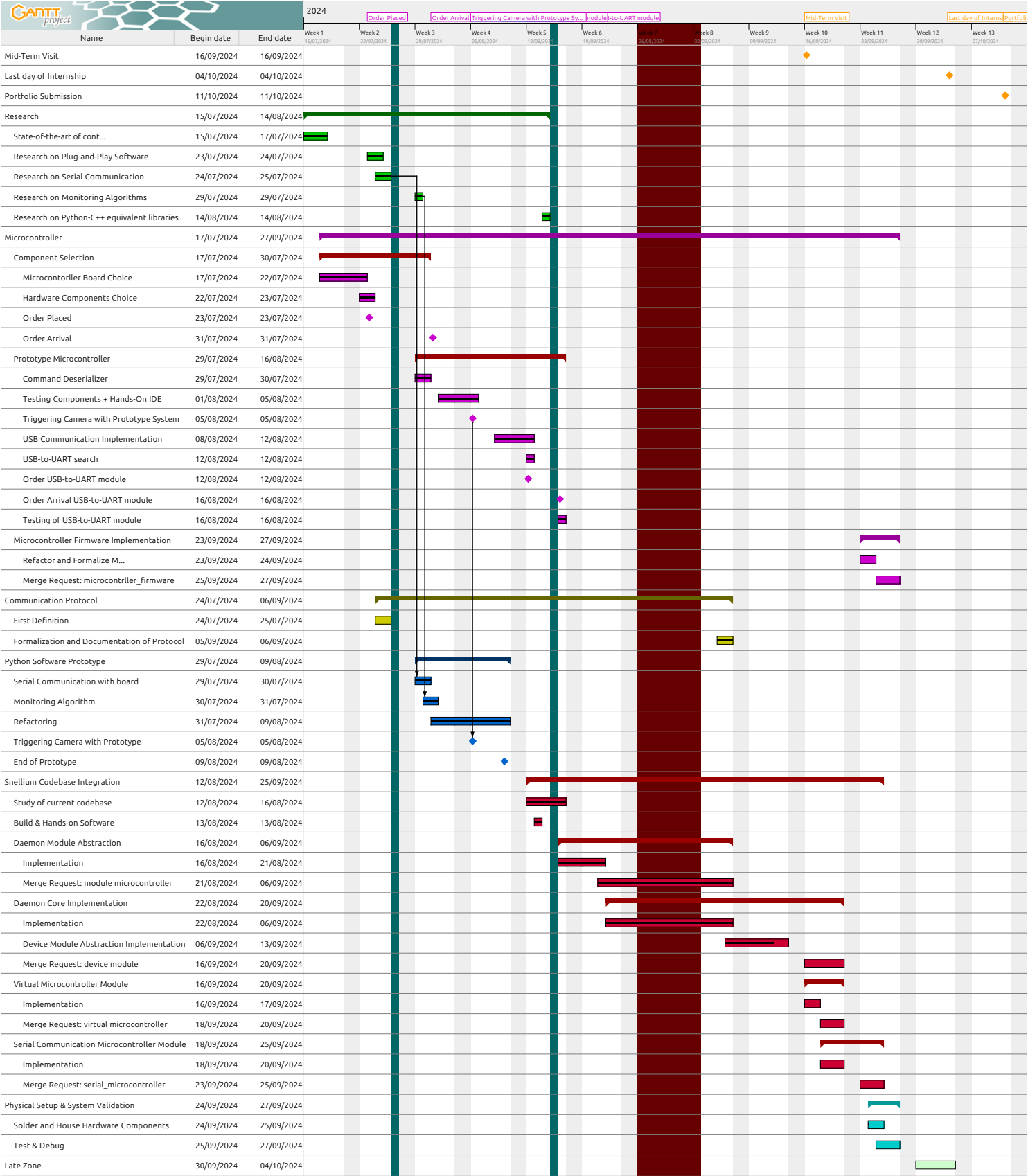
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Name	Begin date	End date
Mid-Term Visit	16/09/2024	16/09/2024
Last day of Internship	04/10/2024	04/10/2024
Portfolio Submission	11/10/2024	11/10/2024
Research	15/07/2024	14/08/2024
State-of-the-art of control system, camera systems, etc	15/07/2024	17/07/2024
Research on Plug-and-Play Software	23/07/2024	24/07/2024
Research on Serial Communication	24/07/2024	25/07/2024
Research on Monitoring Algorithms	29/07/2024	29/07/2024
Research on Python-C++ equivalent libraries	14/08/2024	14/08/2024
Microcontroller	17/07/2024	27/09/2024
Component Selection	17/07/2024	30/07/2024
Microcontorller Board Choice	17/07/2024	22/07/2024
Hardware Components Choice	22/07/2024	23/07/2024
Order Placed	23/07/2024	23/07/2024
Order Arrival	31/07/2024	31/07/2024
Prototype Microcontroller	29/07/2024	16/08/2024
Command Deserializer	29/07/2024	30/07/2024
Testing Components + Hands-On IDE	01/08/2024	05/08/2024
Triggering Camera with Prototype System	05/08/2024	05/08/2024
USB Communication Implementation	08/08/2024	12/08/2024
USB-to-UART search	12/08/2024	12/08/2024
Order USB-to-UART module	12/08/2024	12/08/2024
Order Arrival USB-to-UART module	16/08/2024	16/08/2024
Testing of USB-to-UART module	16/08/2024	16/08/2024
Microcontroller Firmware Implementation	23/09/2024	27/09/2024
Refactor and Formalize Microcontroller Firmware	23/09/2024	24/09/2024
Merge Request: microcontrller_firmware	25/09/2024	27/09/2024
Communication Protocol	24/07/2024	06/09/2024
First Definition	24/07/2024	25/07/2024
Formalization and Documentation of Protocol	05/09/2024	06/09/2024
Python Software Prototype	29/07/2024	09/08/2024
Serial Communication with board	29/07/2024	30/07/2024
Monitoring Algorithm	30/07/2024	31/07/2024
Refactoring	31/07/2024	09/08/2024
Triggering Camera with Prototype	05/08/2024	05/08/2024
End of Prototype	09/08/2024	09/08/2024
Snellium Codebase Integration	12/08/2024	25/09/2024
Study of current codebase	12/08/2024	16/08/2024

Tasks

Name	Begin date	End date
Build & Hands-on Software	13/08/2024	13/08/2024
Daemon Module Abstraction	16/08/2024	06/09/2024
Implementation	16/08/2024	21/08/2024
Merge Request: module microcontroller	21/08/2024	06/09/2024
Daemon Core Implementation	22/08/2024	20/09/2024
Implementation	22/08/2024	06/09/2024
Device Module Abstraction Implementation	06/09/2024	13/09/2024
Merge Request: device module	16/09/2024	20/09/2024
Virtual Microcontroller Module	16/09/2024	20/09/2024
Implementation	16/09/2024	17/09/2024
Merge Request: virtual microcontroller	18/09/2024	20/09/2024
Serial Communication Microcontroller Module	18/09/2024	25/09/2024
Implementation	18/09/2024	20/09/2024
Merge Request: serial_microcontroller	23/09/2024	25/09/2024
Physical Setup & System Validation	24/09/2024	27/09/2024
Solder and House Hardware Components	24/09/2024	25/09/2024
Test & Debug	25/09/2024	27/09/2024
Late Zone	30/09/2024	04/10/2024

Gantt Chart



Resources Chart

