
NOMAD Documentation

Release 1.0.0

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CONTENTS

1	Code	1
2	Design	3
3	Deployment	5
3.1	Deployment Process	5
3.2	Notes:	5
4	Usage	7
4.1	NOMAD Operation	7

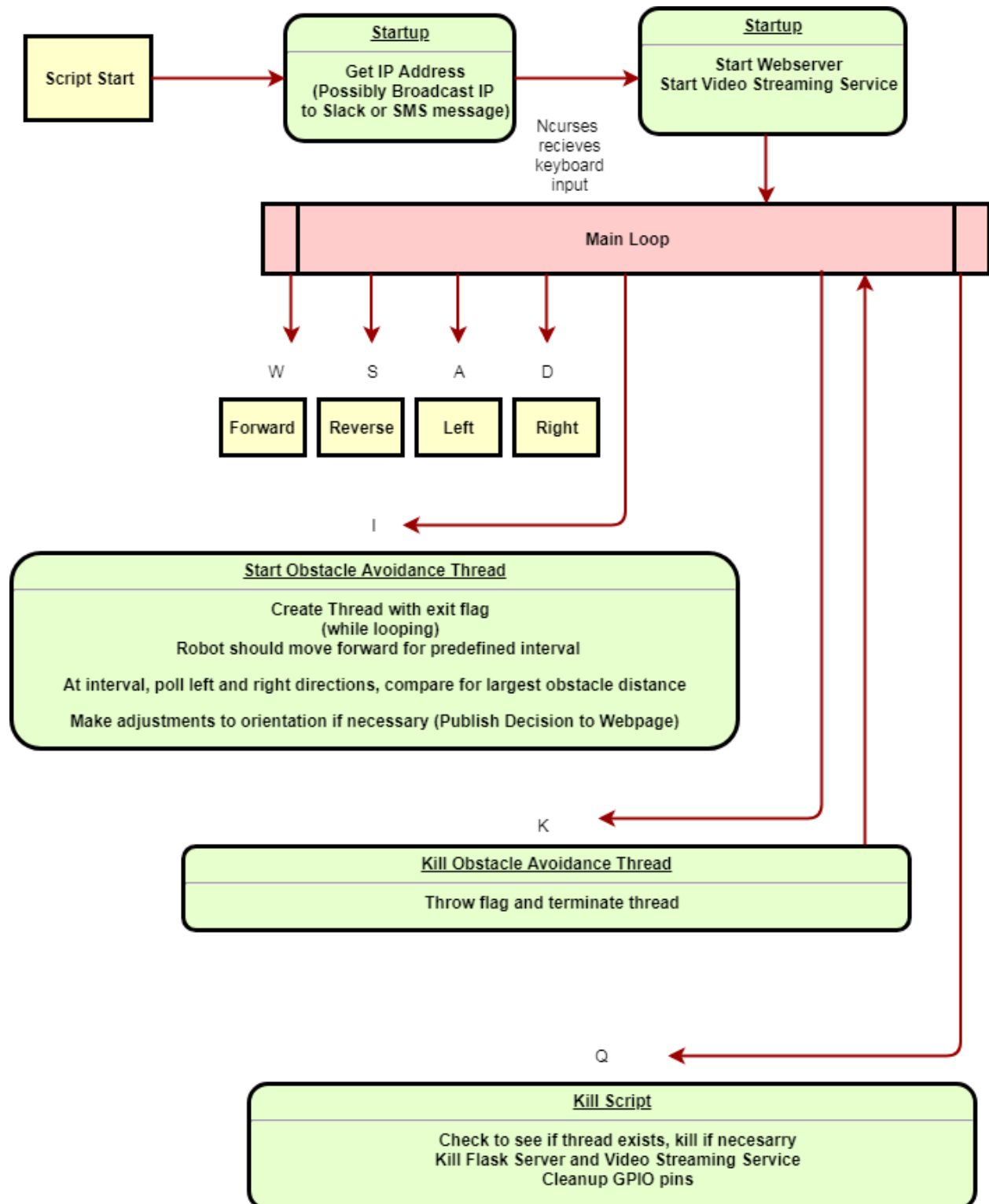
CHAPTER
ONE

CODE

CHAPTER
TWO

DESIGN

Core Logic



DEPLOYMENT

3.1 Deployment Process

Steps:

1. On raspberry pi clone git project: <https://github.com/dapiddler/NOMAD.git>
2. pip install requirements.txt (install uv4l as well <https://www.linux-projects.org/uv4l/installation/>)
3. run python script “nomad.py”
4. open browser and navigate to url [http://\[RPI-IP\]:5000/nomad/](http://[RPI-IP]:5000/nomad/)

3.2 Notes:

- There is an assumption that you have not set a static IP for your RPI. If not, you can check your router for your RPI-IP or use NMAP to scan your network

4.1 NOMAD Operation

Commands:

1. press W key to move Nomad forward
2. press S key to move Nomad reverse
3. press A key to move Nomad left
4. press D key to move Nomad right
5. press I key to initiate auto-navigation
6. press K key to kill auto-navigation
7. press Q key to shutdown Nomad/halt script