

Installation of LDmicro on Windows

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Harsha Priyanka

IIT Bombay

4 January 2021



Learning Objectives

We will see how to install



Learning Objectives

We will see how to install

- **LDmicro**



Learning Objectives

We will see how to install

- LDmicro
- AVRDUDE



Learning Objectives

We will see how to install

- LDmicro
- AVRDUDE
- Drivers for USBasp programmer



System Requirements



System Requirements

- Windows 8 operating system



System Requirements

- Windows 8 operating system
- USBasp programmer



What is LDmicro?



What is LDmicro?

- **LDmicro is an open source software**



What is LDmicro?

- **LDmicro is an open source software**
- **It is used to draw a ladder diagram/ladder logic to program PLCs**



What is LDmicro?

- We can simulate this ladder diagram or ladder logic in real time on our computer



What is LDmicro?

- We can simulate this ladder diagram or ladder logic in real time on our computer
- It can also generate native code for certain PIC16 and Atmel AVR microcontrollers



What is AVRDUDE?



What is AVRDUDE?

- AVRDUDE stands for AVR Downloader Uploader



What is AVRDUDE?

- **AVRDUDE stands for AVR Downloader Uploader**
- **It is a tool for downloading or uploading the on-chip memories of AVR microcontrollers**



USBasp Programmer



USBasp Programmer



Why USBasp drivers?



Why USBasp drivers?

- A USBasp programmer is used to program the controller on OpenPLC Mainboard



Why USBasp drivers?

- A USBasp programmer is used to program the controller on OpenPLC Mainboard
- **AVRDUDE** will not recognize the USBasp, if drivers are not installed



Summary

We learnt to install

- **LDmicro**
- **AVRDUDE**
- **Drivers for USBasp programmer**



About the Spoken Tutorial Project

- Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



Forum for specific questions

- Do you have questions in THIS Spoken Tutorial?
- Please visit <https://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- Someone from our team will answer them



Forum to specific questions

- Questions not related to the Spoken Tutorial?
- Do you have general / technical questions on the Software?
- Please visit the FOSSEE Forum
<https://forums.fossee.in/>
- Choose the Software and post your question.



Acknowledgements

Spoken Tutorial project is supported by

- **National Mission on Education through ICT (NMEICT)**
- **Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching**

Initiatives of MHRD, Government of India



THANK YOU!

For more Information, visit our website
<https://fossee.in/>

