LEGO Mindstorms & Spike (Education)

Alles wichtige zum Thema LEGO Technik, Mindstrorms und & Spike (Education).

Literatur & technische Informationen

- Technical report - Host-hub communication for LEGO Spike Prime on Linux
- Collection of useful information about the Lego Mindstorms Robot Inventor (51515), Lego SPIKE Prime (45678) and Lego SPIKE Essential (45345)

Pybricks und auch die LEGO Spike Webseite setzen zwingend
den Google Chrome Browser voraus!

PyBricks - Firmware flashing made easy

Pybricks - Robotics made easy –> Start coding
Unbedingt vor der ersten Nutzung unter Linux die notwendigen Anpassungen der UDEV Regeln durchführen.

```
mcedit /etc/udev/rules.d/99-pybricksdev.rules

# Pybrickdev rules for LEGO programmable bricks

# MINDSTORMS NXT brick
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0002",
MODE="666", TAG+="uaccess"

# MINDSTORMS NXT brick in firmware update mode (Atmel SAM-BA mode)
SUBSYSTEM=="usb", ATTRS{idVendor}=="03eb", ATTRS{idProduct}=="6124",
MODE="666", TAG+="uaccess"

# MINDSTORMS EV3 brick
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0005",
TAG+="uaccess"
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0005",
MODE="666", TAG+="uaccess"

# MINDSTORMS EV3 brick in firmware update mode
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0006",
MODE="666", TAG+="uaccess"
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0006",
MODE="666", TAG+="uaccess"

# SPIKE Prime hub in firmware update mode (DFU mode)
```

```
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0008",
MODE="666", TAG+="uaccess"

# SPIKE Prime hub
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0009,
MODE="666"", TAG+="uaccess"

# SPIKE Essential hub in firmware update mode (DFU mode)
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="000c",
MODE="666", TAG+="uaccess"

# SPIKE Essential hub
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="000d",
MODE="666", TAG+="uaccess"

# MINDSTORMS Inventor hub
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0010",
MODE="666", TAG+="uaccess"

# MINDSTORMS Inventor hub in firmware update mode (DFU mode)
SUBSYSTEM=="usb", ATTRS{idVendor}=="0694", ATTRS{idProduct}=="0011",
MODE="666", TAG+="uaccess"
```

Zusätzlich muss der Nutzer Mitglied in der Gruppe `tty` sein.

Offizielle LEGO Web Apps

LEGO Education Spike Prime
LEGO Education Spike Prime Legacy

From:
https://von-thuelen.de/ - **Christophs DokuWiki**

Permanent link:
https://von-thuelen.de/doku.php/wiki/kidsundco/lego_technik_mindstorms/uebersicht

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