

LEGO Mindstorms & Spike (Education)

Alles wichtige zum Thema LEGO Technik, Mindstorms 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](#)

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<https://www.von-thuelen.de/> - **Christophs DokuWiki**

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

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