lucleo-F																		
N7-1 N7-2 N7-3 N7-4	51 52 53 54	PC10 PC11 PC12 PD2	CAN	UART3_TX / UART4_TX UART3_RX / UART4_RX UART3_CK / UART5_TX UART5_RX	USB		SPI3_SCK SPI3_MISO SPI3_MOSI	12C2_SDA	Counter TIM3_ETR	Analog In	AnalogOut	PC10 PC11 PC12 PD2	Funktion SPI3_SCK SPI3_MISO SPI3_MOSI PD2	Beschreibung SD SPI SCK SD SPI MISO SD SPI MOSI SD SPI CS	Тур	Level	Bemerkung	Arduino Shiel
17-6	15	E5V													PWR			
7-7 7-8	60	GND													GND			
17-9 17-10		NC NC															NC NC	
i7-11		NC															NC	
7-12	46	PA13										PA13		SWDIO-JTMS	REF	3.3V	SWDIO-JTMS	
17-14 17-15		RESET PA14										PA14		NRST SWCLK-JTCK		3.3V	SWCLK-JTCK	
N7-16	50	3V3		UART4 RTS			CDIA NICC (CDIA NICC		TIM2_CH1 / TIM2_ETR	1		PA15	DATE	Schrittmotor2_DIR	REF	3.3V		
7-18	50	5V		UART4_RTS			25L1_W22 \ 25L3_W22		IIM2_CH1/ IIM2_ETR			PA15	PAIS	Schrittmotor2_DIR	REF	3.3V	JIDI	
7-19 7-20		GND GND													GND GND			
7-21 7-22	59	PB7 GND		UART1_RX				I2C1_SDA	TIM4_CH2			PB7	TIM4_CH2	Encoder B M2	GND	3.3V		
7-22 7-23	2	PC13										PC13	PC13	User Button	GND	3.3V	USER_BUTTON	
1 7-24 17-25	3	VIN PC14										PC14			PWR	3.3V	NC(Nucleo)	
17-26 17-27	4	NC PC15										PC15				3.3V	NC NC(Nucleo)	
17-28	14	PA0		UART2_CTS / UART4_TX		TIM8_ETR			TIM2_CH1 / TIM2_ETR / TIM5_CH1	ADC123_IN0	ı	PA0	TIM2_CH1	Encoder A M3		3.3V		Analog In 0
17-29 17-30	5 15	PHO PA1		UART2_RTS / UART4_RX					TIM2_CH2 / TIM5_CH2	ADC123_IN1	1	PHO PA1	TIM2_CH2	Encoder B M3		3.3V 3.3V	NC(Nucleo)	Analog In 1
17-31 17-32	6	PH1 PA4		UART2 CK			SPI1_NSS / SPI3_NSS			ADC12 IN4	DAC_OUT1	PH1	PH1	Motor Feedback CS SPI Stepper2		3.3V 3.3V		Analog In 2
7-33	1	VBAT									DAC_0011			Сэ эттэтерреги				
7-34 7-35	26 10	PB0 PC2		UART4_CTS		TIM1_CH2N / TIM8_CH2N	SPI3_MOSI SPI2_MISO		TIM3_CH3	ADC12_IN8 ADC123_IN12		PB0 PC2	ADC12_IN8 ADC123_IN12	Analog0 (oder MISO SPI Stepper)		3.3V 3.3V		Analog In 3
7-36 7-37	9 11	PC1 PC3					SPI2_MOSI / SPI3_MOSI SPI2_MOSI			ADC123_IN11 ADC123_IN13		PC1 PC3	PC1 ADC123 IN13	Analog1 (oder MOSI SPI Stepper)		3.3V 3.3V	NC(Nucleo)	Analog In 4
17-38	8	PC0					3712_WO31			ADC123_IN10		PC0	PC0	Allalogi (duel Most stri stepper)		3.3V		Analog In 5
110-1	40	PC9		UART5_CTS		TIM8_CH4		I2C3_SDA	TIM3_CH4	1		PC9	I2C3_SDA	I2C SDA IMU		3.3V		
110-2 110-3	39 61	PC8 PB8	CAN1_RX	UART5_RTS / UART6_CK		TIM8_CH3		12C1 SCI	TIM3_CH3 TIM2_CH1 / TIM2_ETR / TIM4_CH3 / TIM10_CH1			PC8 PB8	PC8	Servo 1 / D1		3.3V 3.3V		SCL
110-4	37	PC6		UART6_TX		TIM8_CH1			TIM3_CH1			PC6	PC6	Servo 2 / D2		3.3V		
10-5 10-6	62 25	PB9 PC5	CAN1_TX	UART3_RX			SPI2_NSS	IZC1_SDA	TIM2_CH2 / TIM4_CH4 / TIM11_CH1	ADC12_IN15		PB9 PC5	I2C1_SDA ADC12_IN15	Analog2		3.3V 3.3V		SDA
10-7 10-8	13	AVDD USV													REF REF			AREF
10-9 10-10		GND NC													GND		NC	GND
10-11		PA5				TIM8_CH1N	SPI1_SCK		TIM2_CH1 / TIM2_ETR	ADC12_IN5	DAC_OUT2		PA5			3.3V	LED	SCK
LO-12 LO-13	45 22	PA12 PA6	CAN1_TX	UART1_RTS	USB_FS_D+	TIM1_ETR TIM1_BKIN / TIM8_BKIN	SPI1_MISO		TIM3_CH1 / TIM13_CH1	ADC12_IN6		PA12 PA6	CAN1_TX TIM3_CH1	CAN TX Encoder A M1		3.3V 3.3V		MISO
10-14 10-15	44 23	PA11 PA7	CAN1_RX	UART1_CTS	USB_FS_D-	TIM1_CH4 TIM1_CH1N / TIM8_CH1N			TIM3_CH2 / TIM14_CH1	ADC12_IN7		PA11 PA7	CAN1_RX PA7	CAN RX		3.3V 3.3V		MOSI
10-16	33	PB12	CAN2_RX				SPI2_NSS	I2C2_SMBA		ADCIZ_IIV	•	PB12	PB12	Servo 3 / D3 (ODER Stepper 2 STEP)		3.3V		IVIOSI
10-17 10-18	58	PB6 NC	CAN2_TX	UART1_TX				I2C1_SCL	TIM4_CH1			PB6	TIM4_CH1	Encoder A M2		3.3V		CS
10-19 10-20	38	PC7 GND		UART6_RX		TIM8_CH2	SPI2_SCK		TIM3_CH2			PC7	TIM3_CH2	Encoder B M1	GND	3.3V		PWM
10-21	42	PA9		UART1_TX		TIM1_CH2	SPI2_SCK	I2C3_SMBA				PA9	TIM1_CH2	PWM Motor M2	3110	3.3V		GPIO
10-22 10-23	28 41	PB2 PA8		UART1_CK		TIM1_CH1	SPI3_MOSI	I2C3_SCL	TIM2_CH4		_	PB2 PA8	PB2 I2C3_SCL	Servo0 I2C CLK IMU		3.3V 3.3V		GPIO
10-24 10-25	27 29	PB1 PB10		UART3 TX		TIM1_CH3N / TIM8_CH3N	SPI2 SCK	I2C2 SCL	TIM3_CH4 TIM2_CH3	ADC12_IN9		PB1 PB10	ADC12_IN9 UART3_TX	Analog3 (oder SCK SPI Stepper)		3.3V 3.3V		PWM
10-26	36	PB15			USB_HS_D+	TIM1_CH3N / TIM8_CH3N	SPI2_MOSI		TIM12_CH2			PB15	PB15	Enable Motor		3.3V	NUTDOT	
10-27 10-28	56 35	PB4 PB14		UART3_RTS	USB_HS_D-	TIM1_CH2N / TIM8_CH2N	SPI2_MISO	I2C3_SDA	TIM3_CH1 TIM12_CH1			PB4 PB14	PB14	Stepper 1 STEP		3.3V 3.3V	NJTRST	PWM
10-29 10-30	57 34	PB5 PB13	CAN2_RX CAN2_TX	UART3_CTS			SPI1_MOSI / SPI3_MOSI SPI2_SCK	I2C1_SMBA	TIM3_CH2	I		PB5 PB13	TIM1_CH1N	(oder CS SPI Stepper 1) PWM Motor M1		3.3V 3.3V		GPIO
10-31	55	PB3					SPI1_SCK / SPI3_SCK	I2C2_SDA	TIM2_CH2			PB3			ACA:D	3.3V	JTDO	PWM
10-32 10-33	43	AGND PA10		UART1_RX		TIM1_CH3					_	PA10	TIM1_CH3	PWM Motor M3	AGND	3.3V		GPIO
110-34 110-35	24 16	PC4 PA2		UART2_TX					TIM2_CH3 / TIM5_CH3 / TIM9_CH1	ADC12_IN14 ADC123_IN2		PC4 PA2	PC4 UART2_TX	Stepper 1 DIR ST Link Serial Port		3.3V 3.3V	COM-PORT	Serial TX
	10	NC.							TIM2_CH4 / TIM5_CH4 / TIM9_CH2			PA3	UART2_RX	ST Link Serial Port			NC COM-PORT	Serial RX
10-36 10-37	17	PA3		UART2_RX						ADC123_IN3						3.3V		