

FIREFLY ROBOTICS EDUCATIONAL CHARITY

England & Wales · Charity number 1181062

Details

Status Registered

Legal form CIO

Registered 2018-12-07

Register [View on the Charity Commission register](#)

Contact

Address 2 The Stables
Littleham
Bideford
Devon
EX39 5HN

Phone 07425392731

Email kinichols59@gmail.com

Website www.firefly-education.com

Activities

Objects: THE ADVANCEMENT OF EDUCATION OF YOUNG PEOPLE FOR THE PUBLIC BENEFIT IN DEVON and Cornwall BY PROVIDING THEM WITH SCHOOL BASED COMPETITIVE OPPORTUNITIES TO LEARN THEORETICAL AND PRACTICAL SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS AND RELATED SKILLS

Activities: We are helping provide school based competitive opportunities for pupils to learn theoretical and practical science, technology, engineering and mathematics and related skills that assists the advancement of education of young people for the public benefit in North Devon.

Classification

- **How:** Acts As An Umbrella Or Resource Body
- **What:** Education/training
- **Who:** Children/young People

Geography

- **Area of benefit:** IN NORTH DEVON
- Cornwall
- Devon

Finances

Period end	Income	Expenditure	Assets	Employees
2025-04-05	£0	£119	-	-
2024-04-05	£0	£0	-	-
2023-04-05	£0	£1,440	-	-
2022-04-05	£4,448	£1,372	-	-
2021-04-05	£0	£0	-	-

Trustees

Name	Role	Appointed
Keith Ian Nichols	Chair	2022-04-28
Annemarie Louise Munro		2023-08-21
DAVID AVERY		2018-12-07
Geoffrey John Triggs		2022-01-04
John Robert Scarr		2023-12-01
Sally Ann Scott		2025-08-14

FIREFLY ROBOTICS EDUCATIONAL CHARITY

England & Wales - Charity number 1181062

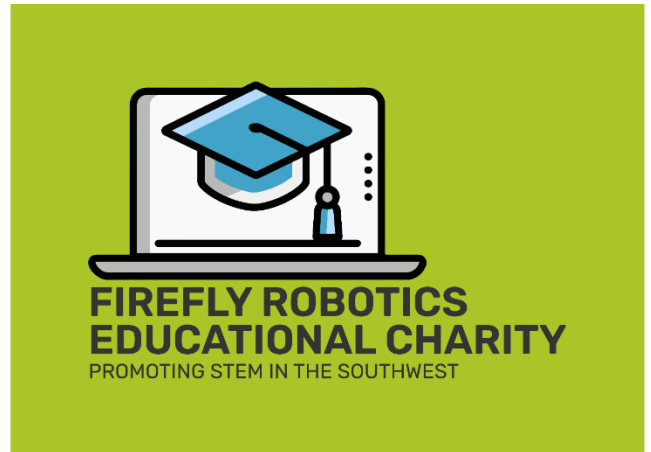
Accounts

Firefly Robotics Educational

Charity Report

2024/25

“Inspiring the next generation for a better tomorrow”



UK Charity Commission Registered **1181062**

Over the past 12 months our charity have made over 16 school and college visits running 2 or 3 workshops per visit and in doing so have reached over 300 students in Devon and Cornwall teaching how to program an Edison Robot and at the same time learn how to maximise the sensing and motion capabilities of the V2 Edison robots interacting with the EdScratch programming interface.

Our school reach expanded to include smaller rural schools like Woolacombe, Marwood and Shirwell where our contributions to mixed year groups was greatly appreciated.

During this reporting period David Avery stood down as chair of trustees and was replaced by existing trustee Keith Nichols. All trustees were grateful to David for his leadership and setting up the charity in 2018. David remains a valuable trustee of our charity.

This year has also seen our charity collaborate with the School of Education at Exeter University to support their research titled “***The motivations and potential of retired volunteer experts in supporting regional schools***” under the guidance of Professor Brahm Norwich, School of Education, University of Exeter.

Our charities aim is to promote STEM (Science Technology Engineering and Mathematics) in our region. Offering students an opportunity to explore science and technology through programming robotic devices as well as understanding from our scientists and engineers how technology career opportunities can provide secure and engaging futures for the students.

In November 2024 we were able to support the IET with their successful North Devon Robotics challenge at Petroc College which this year number of local schools participating in this prestigious event.

Keith Nichols – Chair of Trustees Firefly Robotics Educational Charity

Firefly Robotics Educational Charity

2024/2025 Year End - CASH BOOK

DATE	DETAILS	CASH	BANK	SALES	RECEIVABLES	DATE	DETAILS	CASH	BANK	PURCHASES	PAYABLES	OTHER
21/12/2024	Balance b/f		1635.03			22/12/2024	Annemarie Expenses #1		119.00			119.00
						31/12/2024	Balance c/d		1516.03			
		0.00	1635.03	0.00	0.00			0.00	1635.03	0.00	0.00	119.00
05/04/2025	Balance b/d		1516.03									

Notes

#1 Annual web charges for the Firefly website

FIREFLY ROBOTICS EDUCATIONAL CHARITY

England & Wales - Charity number 1181062

Accounts



Trustees' Annual Report for the period

From **01.04.2023** Period start date To **31.03.2024**
Period end date

Charity name: Firefly Robotics Educational Charity

Charity registration number: 1181062

Objectives and Activities

	SORP reference	
Summary of the purposes of the charity as set out in its governing document	Para 1.17	We are helping provide school based opportunities to learn theoretical and practical science technology engineering and mathematics and related skills that assist the advancement of education of young people for the public benefit in North Devon
Summary of the main activities in relation to those purposes for the public benefit, in particular, the activities, projects or services identified in the accounts.	Para 1.17 and 1.19	During this year we have undertaken with teachers and teaching assistants coding activities in Primary Schools using Edison robots and the Scratch programme principally for years 3 – 4 but also 5 – 6 and we have held at Petroc a competition for Year 7 using Scratch with 5 school entries. We have commissioned a research project with Exeter University to assist the development of our work
Statement confirming whether the trustees have had regard to the guidance issued by the Charity Commission on public benefit	Para 1.18	The Trustees confirm that they have had regard to the guidance issued by the Charity Commission on public benefit

Additional information (optional)

You may choose to include further statements where relevant about:

	SORP reference	
Policy on grant making	Para 1.38	
Policy on social investment including program related investment	Para 1.38	As part of our work with Exeter University we have identified the need to involve children with special educational needs and other children outside the school environment such as home schoolers and children with additional needs such as autism. This will require an amendment to our charitable objects

Contribution made by volunteers	Para 1.38	All of our work is undertaken by volunteers. School sessions take 1.5 hours for 20 – 30 students. At some larger schools there will be 3 sessions with different students in a day. The competition takes place over 2 hours. There is background preparation, travel and organisation. No expenses are paid.
Other		

Achievements and Performance

	SORP reference	
Summary of the main achievements of the charity, identifying the difference the charity's work has made to the circumstances of its beneficiaries and any wider benefits to society as a whole.	Para 1.20	<p>During this year the charity has sought to hone its skills and widen its reach, building on the experience of the previous year. Teachers are busy people and feedback has been by a verbal conversation both during and after the day. Every school we have visited has invited us back. One teacher wrote: <i>“ Can I please say a huge thank you to everyone for your help with the Edison workshop. The children really enjoyed it and it has made a big impact on their understanding of programming. My daughter came home from [another school] a couple of weeks ago buzzing about the Edison robot workshop she had done there”</i></p> <p>It is not an activity which would justify schools buying the robots themselves and teachers are diffident in their coding skills. Providing an explanation by those who have programmed robots in industry lends authenticity.</p> <p>Whilst we have expanded the number of sessions and schools during this year and made more connections with new schools this is work to do in future years</p>

Additional information (optional)

You may choose to include further statements where relevant about:

Achievements against objectives set	Para 1.41	
Performance of fundraising activities against objectives set	Para 1.41	

Investment performance against objectives	Para 1.41	
Other		

Financial Review

Review of the charity's financial position at the end of the period	Para 1.21	
Statement explaining the policy for holding reserves stating why they are held	Para 1.22	
Amount of reserves held	Para 1.22	
Reasons for holding zero reserves	Para 1.22	
Details of fund materially in deficit	Para 1.24	
Explanation of any uncertainties about the charity continuing as a going concern	Para 1.23	

Additional information (optional)

You may choose to include further statements where relevant about:

The charity's principal sources of funds (including any fundraising)	Para 1.47	
Investment policy and objectives including any social investment policy adopted	Para 1.46	
A description of the principal risks facing the charity	Para 1.46	
Other		

Structure, Governance and Management

Description of charity's trusts:		
Type of governing document (trust deed, royal charter)	Para 1.25	Constitution
How is the charity constituted? (e.g unincorporated association, CIO)	Para 1.25	Charitable Incorporated Organisation
Trustee selection methods including details of any constitutional provisions e.g. election to post or name of any person or body entitled to appoint one or more trustees	Para 1.25	Contact through professional organisations including Institute of Electrical Engineers, North Devon Manufacturers Association and STEM Ambassadors as well as personal contact

Additional information (optional)

You may choose to include further statements where relevant about:

Policies and procedures adopted for the induction and training of trustees	Para 1.51	
The charity's organisational structure and any wider network with which the charity works	Para 1.51	
Relationship with any related parties	Para 1.51	
Other		

Reference and Administrative details

Charity name	
Other name the charity uses	
Registered charity number	
Charity's principal address	

Names of the charity trustees who manage the charity

	Trustee name	Office (if any)	Dates acted if not for whole year	Name of person (or body) entitled to appoint trustee (if any)
1	David Avery	Chair		
2	Geoffrey Trigg	Trustee		
3	John Robert Scarr	Trustee	01/12/2023	
4	Annemarie Munro	Trustee	21/08/2023	
5	Keith Nichols	Trustee		
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Corporate trustees – names of the directors at the date the report was approved

Director name		

Name of trustees holding title to property belonging to the charity

Trustee name	Dates acted if not for whole year	

Funds held as custodian trustees on behalf of others

Description of the assets held in this capacity	
Name and objects of the charity on whose behalf the assets are held and how this falls within the custodian charity's objects	
Details of arrangements for safe custody and segregation of such assets from the charity's own assets	

Additional information (optional)

Names and addresses of advisers (Optional information)

Type of adviser	Name	Address
-----------------	------	---------

Name of chief executive or names of senior staff members (Optional information)

--

Exemptions from disclosure

Reason for non-disclosure of key personnel details

--

Other optional information

--

Declarations

The trustees declare that they have approved the trustees' report above.

Signed on behalf of the charity's trustees

Signature(s)	K I Nichols	
Full name(s)	Keith Ian Nichols	
Position (eg Secretary, Chair, etc)	Chair Trustees	
Date	24 th December 2024	

Firefly Robotics Educational Charity CASH BOOK

DATE	DETAILS	BANK	SALES	DATE	DETAILS	BANK	PURCHASES	PAYABLES	OTHER
06/04/2023	Balance b/f	1635.03							
				05/04/2024	Balance c/d	1635.03			
		1635.03	0.00			1635.03	0.00	0.00	0.00
05/04/2024	Balance b/d	1635.03							

FIREFLY ROBOTICS EDUCATIONAL CHARITY

England & Wales - Charity number 1181062

Accounts



Trustees' Annual Report for the period

From 6 April 2022 Period start date

To 5 April 2023 Period end date

Charity name: Firefly Robotics Educational Charity

Charity registration number: 1181062

Objectives and Activities

	SORP reference	
Summary of the purposes of the charity as set out in its governing document	Para 1.17	School based opportunities for pupils to learn science technology engineering and mathematics and related skills that assists the advancement of education of young people
Summary of the main activities in relation to those purposes for the public benefit, in particular, the activities, projects or services identified in the accounts.	Para 1.17 and 1.19	In the summer academic term of 2022, having acquired 20 Edison robots trial sessions were undertaken over 2 days with 60 Year 3 students at Newport Primary Barnstaple and 60 Year 3 students at Southmead Primary Braunton Lesson Plans were developed from this trial, training in delivery undertaken, and in March 2023 64 Year 3 students at Braunton Caen Primary undertook hands on programming in EdBlocks, a simplified Scratch, over two days. 60 Year 3 students at Newport School also took part in like sessions. Also in March 23 an after school Robotics Challenge took place at Petroc. All Year 7 Schools had been invited and three schools took part Invitations were sent out to other Primary Schools for the summer term.
Statement confirming whether the trustees have had regard to the guidance issued by the Charity Commission on public benefit	Para 1.18	The Trustees had regard to the guidance issued by the Charity Commission on public benefit

Additional information (optional)

You may choose to include further statements where relevant about:

	SORP reference	
Policy on grant making	Para 1.38	

Policy on social investment including program related investment	Para 1.38	
Contribution made by volunteers	Para 1.38	The delivery of the programming sessions was all undertaken by volunteers
Other		

Achievements and Performance

	SORP reference	
Summary of the main achievements of the charity, identifying the difference the charity's work has made to the circumstances of its beneficiaries and any wider benefits to society as a whole.	Para 1.20	The lesson plans delivered are aligned to delivery of the curriculum for Years 3 and 4 in computing with additional input to mathematics and keyboard skills and assist the teaching staff for delivery in a fun and memorable way The Year 7 competition as well as programming also encourages working in Scratch to explain the processes used to judges and introduces them to an adult learning environment viz. the technology department at Petroc

Additional information (optional)

You may choose to include further statements where relevant about:

Achievements against objectives set	Para 1.41	
Performance of fundraising activities against objectives set	Para 1.41	

Investment performance against objectives	Para 1.41	
Other		

Financial Review

Review of the charity's financial position at the end of the period	Para 1.21	
Statement explaining the policy for holding reserves stating why they are held	Para 1.22	
Amount of reserves held	Para 1.22	
Reasons for holding zero reserves	Para 1.22	
Details of fund materially in deficit	Para 1.24	
Explanation of any uncertainties about the charity continuing as a going concern	Para 1.23	

Additional information (optional)

You may choose to include further statements where relevant about:

The charity's principal sources of funds (including any fundraising)	Para 1.47	
Investment policy and objectives including any social investment policy adopted	Para 1.46	
A description of the principal risks facing the charity	Para 1.46	
Other		

Structure, Governance and Management

Description of charity's trusts:		
Type of governing document (trust deed , royal charter)	Para 1.25	
How is the charity constituted? (e.g unincorporated association , CIO)	Para 1.25	
Trustee selection methods including details of any constitutional provisions e.g. election to post or name of any person or body entitled to appoint one or more trustees	Para 1.25	

Additional information (optional)

You may choose to include further statements where relevant about:

Policies and procedures adopted for the induction and training of trustees	Para 1.51	
The charity's organisational structure and any wider network with which the charity works	Para 1.51	
Relationship with any related parties	Para 1.51	
Other		

Reference and Administrative details

Charity name	
Other name the charity uses	
Registered charity number	
Charity's principal address	

Funds held as custodian trustees on behalf of others

Description of the assets held in this capacity	
Name and objects of the charity on whose behalf the assets are held and how this falls within the custodian charity's objects	
Details of arrangements for safe custody and segregation of such assets from the charity's own assets	

Additional information (optional)

Names and addresses of advisers (Optional information)

Type of adviser	Name	Address

Name of chief executive or names of senior staff members (Optional information)

--

Exemptions from disclosure

Reason for non-disclosure of key personnel details

--

Other optional information

--

Declarations

The trustees declare that they have approved the trustees' report above.

Signed on behalf of the charity's trustees

Signature(s)

--	--

Full name(s)

--	--

Position (eg Secretary,
Chair, etc)

--	--

Date

--

Firefly \robotics Educational Charity
 5April 2022 to 4April 2023

PV No	Date	Payme nt to	Amount	Balance	
	01-Mar	Balance BF		3075.69	
1	11/04/20 22	amazon	270	2805.69	6 robo
2	11/04/20 22	amazon	215.77	2589.92	11 creation kits
3	14/04/20 22	amazon	47.78	2542.14	Accessories
4	08/05/20 22	amazon	20.9	2521.24	Batteri es
5	10/05/20 22	amazon	49.98	2471.26	Batteri es
6	08/06/20 22	amazon	22.38	2448.88	Charge rs
7	07/07/20 22	amazon	13.27	2435.61	Batteri es
8	18/10/20 22	amazon	737.8	1697.81	20 Robo
9	26/10/20 22	amazon	62.75	1635.06	80 aaa batteries
			1440.6		
			3		

FIREFLY ROBOTICS EDUCATIONAL CHARITY

England & Wales - Charity number 1181062

Accounts

Firefly Robotics Educational Charity - Annual report 06/04/2020 - 05/04/2021

The Virus Covid19 inhibited all activities before 1 December except the development of the Raspberry Pi Robots. In December PATROC our College of Higher Education hosted an event that involved six (8 year old) pupils from Newport Primary School operating the Robo's for about 2 hours. It proved how effective undertaking enjoyable tasks were in educating the participants. Sadly, It demonstrated many problems with the Robo's including a lack of robustness.

Alternative Robots were researched and it a relief to find the Edison Robot, which had not been available 2 years before met our needs and was less expensive. A decision to develop future activities using it was made

Firefly Robotics Educational Charity Account

to 1 April 2022

Money BF 466.00

Date	Amount	What For	notes		bal
14/06/2021	9.95	P Bennett travel expenses		1	456.05
30/11/2021	142.49	Batteries from N Devon Models	Refund to Geoff Trigg	2	313.56
27/10/2021	17.98	Quick Charger	Ebay Purchase	3	295.58
25/11/2021	9.99	Crimmp Pins	For P Bennett	4	285.59
01/12/2021	5.67	Micro SD Memory	For P Bennett	5	279.92
19/09/2021	20.09	Micro USB Cables		6	259.83
28/10/2021	18.98	power bank charger		7	240.85
25/10/2021	14.44	screwdriver set	for very small screws & nuts	8	226.41
17/11/2021	200.00	grant from Torrington Cavaliers		R1	426.41
09/12/2021	5.99	Geocable ties	For P Bennett	9	420.42
03/12/2021	26.30	Rasperry Pi Wif Donguls	CPC purchase	10	394.12
10/12/2021	74.00	Travel Lodge expense	P Bennett stay for event	11	320.12
					3,395.8
24/12/2021	3,075.69	Grant from Petroc		R2	1
					2,846.6
16/02/2022	549.13	Amozon	Edison Robot Parts	12	8
					2,778.0
29/01/2022	68.64	Amazon	Edison Robot Parts	13	4
					2,754.1
21/02/2022	23.89	Amazon	Edison Robot Parts	14	5
					2,569.7
21/02/2022	184.45	Amazon	Edison Robot Parts	15	0
income	4,447.68				
Payments	1,371.99				
Carried Fwd	3,075.69				